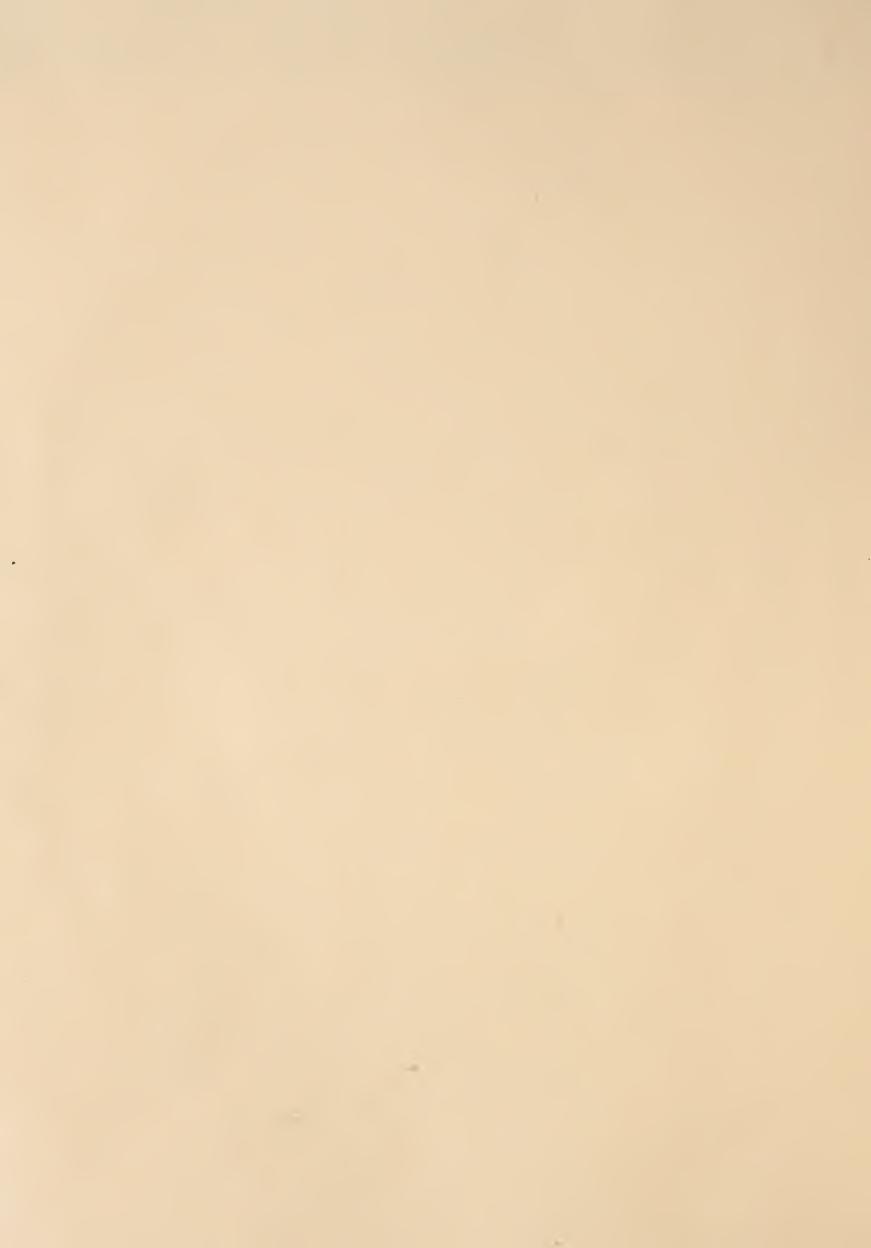
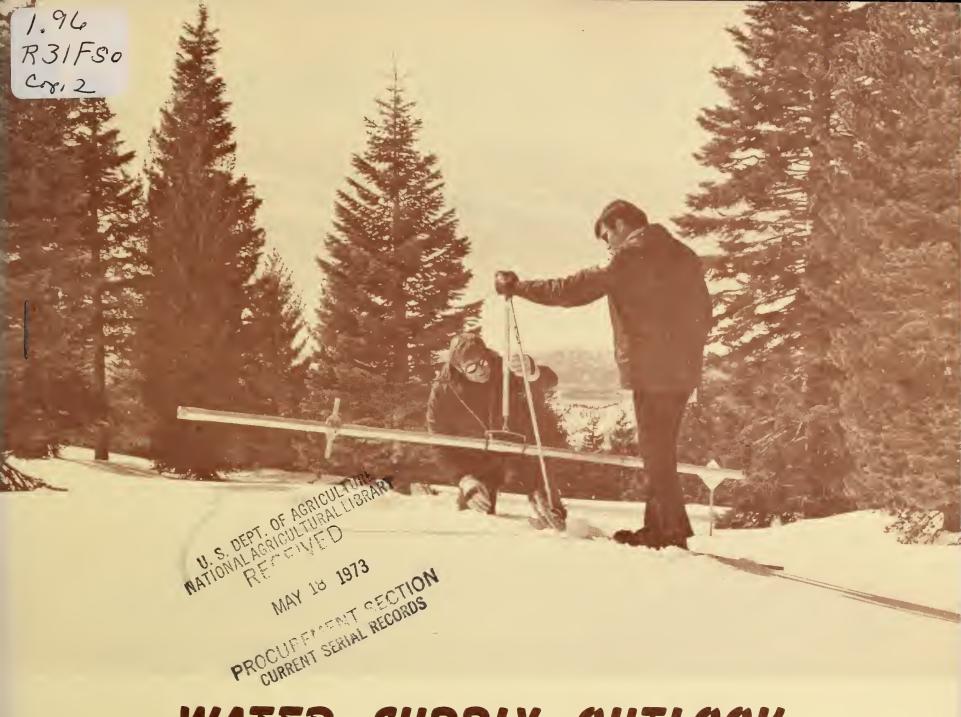
### **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.





# WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

### U. S. DEPARTMENT of AGRICULTURE \* SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY and STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above in cooperation with other Federal. State and private organizations.

MAY 1, 1973

### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Tssued

MAY 8, 1973

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
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A.J. WEBBER

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In Cooperation with

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CHRIS L. WHEELER

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Report prepared by

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HOWARD M. VANCE, Assistant Snow Survey Supervisor

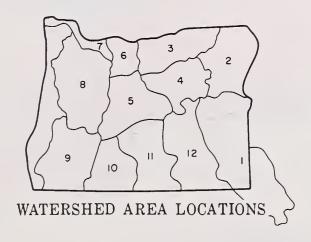
SOIL CONSERVATION SERVICE 1218 S W WASHINGTON ST PORTLAND, OREGON 97205

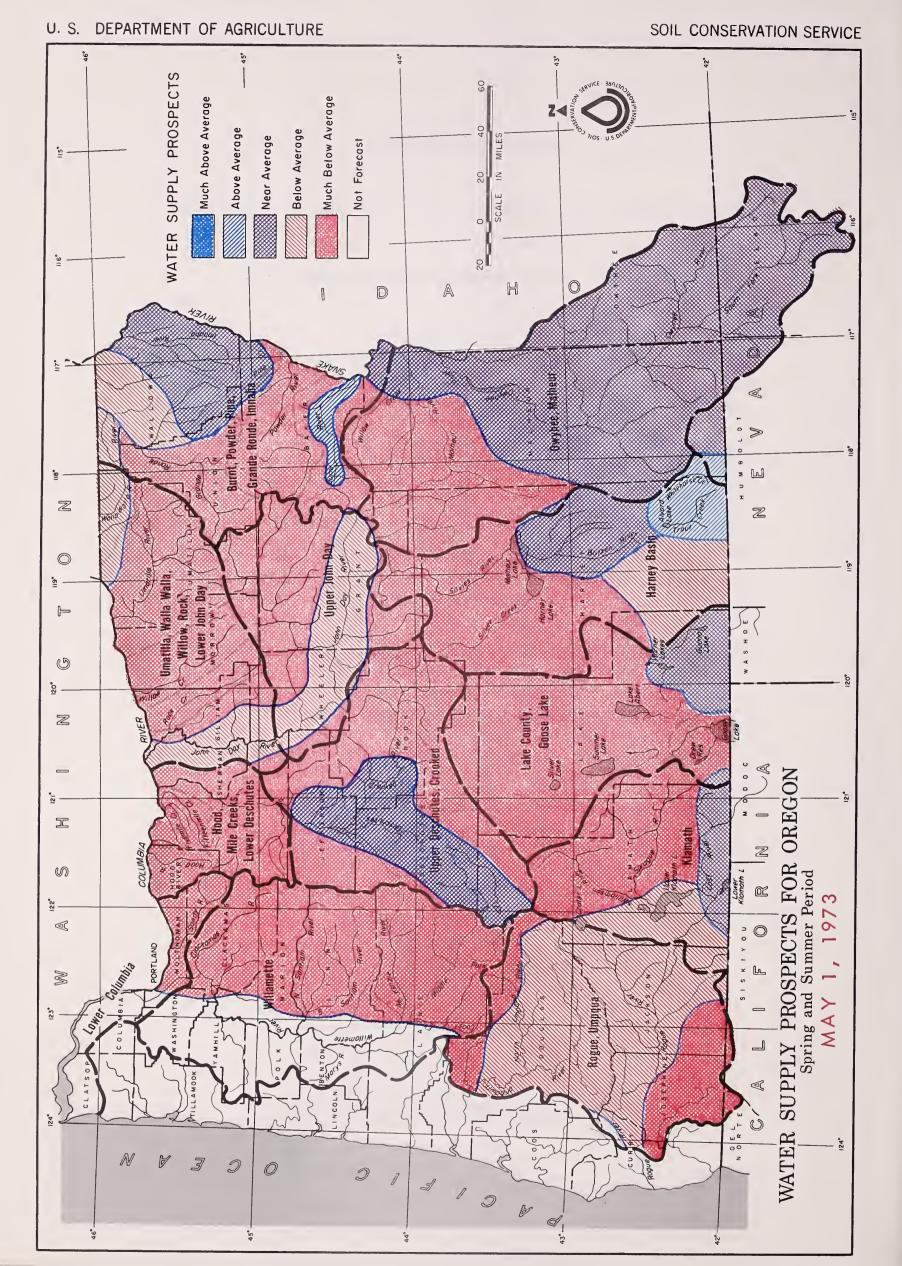


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### WATER SUPPLY OUTLOOK for OREGON

May 1, 1973

The water supply outlook for Oregon remains much below average to average. Average supplies will be available only from reservoired water and streams in the Warner, Steens, and Trout Creek mountains of southern Oregon. Most other areas of the state will have much below average streamflow this summer with a resultant lack of water available to users. The snow cover is poor and the precipitation pattern during April continued dry.

### SNOW COVER

The May 1 snow surveys indicate a snow cover that is much below normal over most of the state. The only snow remaining is at the higher elevations. The snowpack ranges from a low of 5% of average on the Clackamas drainage up to 75% of normal on the Owyhee. Most areas are near 50% of average.

### PRECIPITATION

The precipitation pattern remained dry during April. All areas of the state were much below normal except the Rogue and Umpqua basins which received 75% of average rainfall for the past month.

### SOIL MOISTURE

Generally soil moisture conditions are drier than usual for May I. This is due to lack of precipitation this past winter and lack of snow in areas that are normally covered by a melting snowpack this time of year.

### RESERVOIR STORAGE

About half of the major irrigation reservoirs are storing above average amounts of water for May 1. The total amount stored in 25 of these reservoirs is 110% of normal. Reservoirs that will not fill to capacity include Bully Creek, Warmsprings, Beulah, McKay, Ochoco, Antelope, and some of the Willamette reservoirs, such as, Detroit, Lookout Point, Hills Creek, and Cougar.

### STREAMFLOW

Streamflow during April continued much below normal over most of the state except for the Owyhee river which was near normal. Most streams this summer will flow much below average.

Typical forecasted streamflow for the May-July runoff period is as follows:

STREAM	PERCENT 1953-67 AVERAGE
Owyhee Net Inflow	92
Malheur near Drewsey	42
Deschutes at Benham Falls	82
Grande Ronde at La Grande	43
Willamette, Mid. Fork near Oakridge	65
Upper Klamath Lake net Inflow (May-Sept.)	65
Rogue near Raygold	70
Silvies near Burns	47
John Day, Mid. Fork near Ritter	65

These forecasts assume that average temperatures and precipitation will occur from now to the end of the forecast period.

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.





### WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

as of

MAY 1, 1973

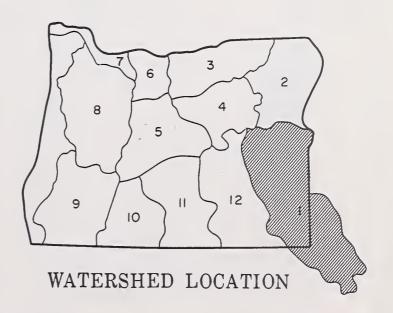
### U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

WATER USERS WILL HAVE AVERAGE WATER SUPPLIES IN THE OWYHEE RIVER BASIN AND BELOW AVERAGE IN THE MALHEUR RIVER BASIN. SNOW COVER ON THE OWYHEE DRAINAGE IS 75 PERCENT OF AVERAGE, 60 PERCENT ON JORDAN CREEK, AND 35 PERCENT ON THE MALHEUR DRAINAGE. SOIL MOISTURE IS NEAR AVERAGE. PRECIPITATION WAS 65 PERCENT OF AVERAGE DURING APRIL. THE OWYHEE RESERVOIR STORAGE IS ABOVE AVERAGE. BULLY CREEK, BEULAH, WARMSPRINGS, AND ANTELOPE RESERVOIRS WILL NOT FILL.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period			
STREAM or AREA	Spring Season	Late Season		
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt.Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warmsprings Irrig. Dist. Willow Creek (Reservoired)	Average Average Average Average Average Average Excellent Average Average Average Average Average Average	Fair Fair Fair Fair Fair Average Excellent Fair Fair Fair Fair Fair		



T.A. GEORGE AND H.M. VANCE

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STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i	
Bully Creek at Warmsprings Jordan Creek above Lone Tree Creek Malheur near Drewsey  Malheur, North Fork at Beulah	7.4 42 13.8 13.6 22	65 87 42 40 67	March-May May-July May-July May-Sept.	7.5	11.4 48 33 34	
Owyhee Reservoir net Inflow k	27 147 167	71 92 93	May-July May-Sept. May-July May-Sept.	35 36 176 200	33 38 160 179	

### FORECAST DATE of LOW FLOW VALUES

### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

				MEDERITOR STORAGE C		7.01	LIND OI	11011111
FORECAST POINT	Low Flow Value	July Court IIIII	Average Date of Low Flow	RESERVOIR	Usable	U	sable Stora	ige
	Second/Ft.	Recede to Low Flow Value	Value	KESEKVOIK	Capacity	This Year	Last Year	Average i
Owyhee near Rome	1000 250	June 20 July 4	May 24 June 20	Antelope Beulah Res. Bully Creek Owyhee Warmsprings	70.0 60.0 30.0 715.0 191.0	25.1 37.6 19.8 714.0 128.5	54.3 56.6 26.4 708.5 180.1	30.7 50.1 20.6 531.9 137.2

### SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS

				(COMPARISON WITH PREVIOUS	YEARS)		
RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average i		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YE. WATER AS Last Year	AR'S SNOW PERCENT OF Average i
Jordan Creek Malheur River Owyhee River	1 2 1	101 103 103	101 92	Jordan Creek Malheur River Owyhee River	2 3 3 3	20 20 40	60 35 75

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

*as of* MAY 1, 1973

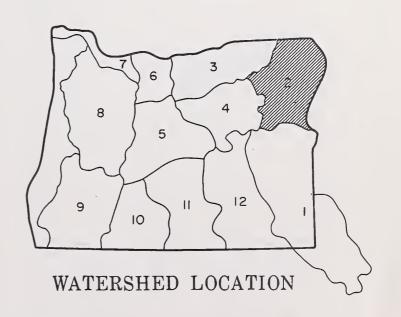
U. S. D. A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

### GENERAL OUTLOOK

WATER SUPPLIES WILL BE AVERAGE TO MUCH BELOW AVERAGE IN MOST OF NORTHEAST OREGON. THE GRANDE RONDE DRAINAGE WILL HAVE MUCH BELOW AVERAGE SUPPLIES. SNOW COVER IS 35 PERCENT AND 55 PERCENT ON THE BURNT AND POWDER RIVER DRAINAGES, RESPECTIVELY, 65 PERCENT IN THE WALLOWAS, AND 20 PERCENT ON THE GRANDE RONDE DRAINAGE. THE PRECIPITATION DURING APRIL WAS 33 PERCENT OF AVERAGE. SOIL MOISTURE IS SLIGHTLY BELOW AVERAGE. RESERVOIR STORAGE IS NEAR AVERAGE AND SHOULD SUPPLY USERS WITH ACCESS NEAR ADEQUATE QUANTITIES OF WATER THIS SUMMER.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period			
STREAM or AREA	Spring Season	Late Season		
Alder Slope Baker Valley Big Creek Clover Cr. (nr. N. Powder) Cove Durkee Eagle Valley Elgin Enterprise-Joseph Hereford-Bridgeport Imnaha River LaGrande-Island City Lostine-Wallowa No. Powder River-Wolf Creek Pine Valley Powder River-Elk Creek Summerville Sumpter Valley Union-Hot Lake Unity	Average Average Average Fair Fair Average Average Average Average Average Average Poor Average Fair Average Fair Average Fair Average Fair Average Fair Fair	Average Fair Fair Fair Fair Average Average Poor Average Average Poor Average Fair Average Fair Average Fair Poor Fair Poor Poor		



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
Bear near Wallowa	37	65	May-Sept.		57
Burnt near Hereford d	3.6	25	May-July		14.3
	4.0	26	May-Sept.		15.5
Catherine near Union	28	54	May-Sept.		52
Eagle Creek above Skull Creek	133	93	May-July		143
	145	93	May-Sept.		156
Grande Ronde at La Grande	43	43	May-July	134	101
	45	43	May-Sept.	138	105
Hurricane Creek near Joseph	35	79	May-Sept.		45
Imnaha at Imnaha	199	88	May-Sept.		225
Lostine near Lostine	96	83	May-Sept.		116
Powder River near Sumpter	20	52	May-July		39
Toward Niver Near Sampeer	20	54	May-Sept.		40
Wallowa, East Fork near Joseph $d$	6.3	72	May-July		8.7
wallowa, Last Polk Heal Joseph	8.2	73	May-Sept.		11.2
	0.2	/3	мау-оерс.		11,2

### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

### SUMMARY of SNOW MEASUREMENTS

					(COMPARISON WITH PREVIOUS Y	EAKS)		
RESERVOIR	Usable Capacity	This	Usable Storage		RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF
	3.7	Year	Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Phillips Lake	73.5	51.9	64.0		Burnt River Grande Ronde River	4	25	35
Thief Valley Unity	17.4 25.2	17.4 23.4	17.4 25.9	24 1	above La Grande	4	10	20
Wallowa Lake	37.5	16.2	20.7	24.1 25.9	Powder River Wallowa, Imnaha,	5	35	55
					Catherine Creek	6	50	65
							1	

SOII	MOISTURE				
	RIVER BASIN		THIS YEAR'S MOISTUR as PERCENT OF:		
L		Stations	Last Year	Average i	
	rnt, Powder ande Ronde, Catherine	2	83	91	
	Creek, Imnaha River	3	91	98	

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS OREGON

*as of* MAY 1, 1973

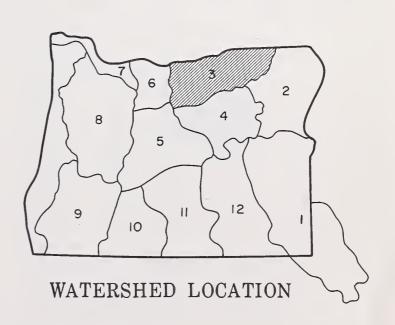
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GENERAL OUTLOOK

MUCH BELOW AVERAGE WATER SUPPLIES ARE IN PROSPECT FOR MOST UMATILLA COUNTY WATER USERS. USERS WITH ACCESS TO WATER STORED IN McKAY AND COLD SPRINGS RESERVOIRS WILL HAVE BELOW AVERAGE WATER SUPPLIES. THE MOUNTAIN SNOWPACK IS 25 TO 35 PERCENT OF NORMAL. SOIL MOISTURE IS NEAR NORMAL. PRECIPITATION DURING APRIL WAS 55 PERCENT OF AVERAGE. McKAY RESERVOIR WILL NOT FILL. SUMMER STREAMFLOW WILL BE MUCH BELOW NORMAL.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period			
STREAM or AREA	Spring Season	Late Season		
Walla Walla River, No. Fork	Fair	Fair		
Walla Walla River, So. Fork	Fair	Fair		
Walla Walla River, Main	Fair	Fair		
Walla Walla River, Little	Fair	Poor		
Couse Creek	Fair	Poor		
Dry Creek	Fair	Poor		
Pine Creek	Fair	Poor		
Umatilla River, Main	Fair	Poor		
Wildhorse Creek	Fair	Poor		
Umatilla R. (Cold Springs				
Reservoir)	Average	Fair		
Umatilla R. (McKay Res.)	Fair	Poor		
McKay Creek	Poor	Poor		
Birch Creek	Poor	Poor		
Butter Creek	Poor	Poor		
Willow Creek	Poor	Poor		
Rhea Creek	Poor	Poor		
Rock Creek (John Day				
Tributary)	Poor	Poor		



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
Birch Creek at Rieth	4.5	51	May-July	0.5	0.0
Butter Creek near Pine City	2.1	53	May-July May-July	9.5 4.5	8.9 4.0
McKay near Pilot Rock	5.2	47	May-Sept.	4.3	11.0
Umatilla River near Gibbon	20	47	May-July	55	42
	24	50	May-Sept.	62	48
Umatilla River at Pendleton	42	56	May-July	97	75
	48	60	May-Sept.	101	80
Walla Walla, So. Fork near Milton	28	75	May-July	51	38
	40	80	May-Sept.	67	50

### FORECAST DATE of LOW FLOW VALUES

### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

I ONE ON DATE OF LOW	ILON TAL	OLO		WESTRACIU SIONNOE (	nousanu	NU. IL.	ENDOF	MONTH
FORECAST POINT	Low Flow Value	Jucani min	Average Date	RESERVOIR	Usable		sable Stora	ge
FORECAST FOINT	Second/Ft.	Recede to Low Flow Value	of Low Flow Value	KESEKVOIK	Capacity	This Year	Last Year	Average i
Umatilla at Pendleton	550	May 4	May 22	Cold Springs McKay	50.0 73.8	45.6 32.5	49.8 67.8	49.7 57.7

### SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS

	1	THE VE 1515	NOISTURE 1	(COMPARISON WITH PREVIOUS	YEARS)		
RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average i		RIVER BASIN and/or	Number of Courses Averaged	WATER AS	AR'S SNOW PERCENT OF
	1			SUB-WATERSHED	Averaged	Last Year	Average i
Umatilla, Walla Walla, McKay Creek	2	105	105	McKay Creek Umatilla River Walla Walla River	3 3 2	15 20 15	25 35 35

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



## WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

**as of**MAY 1, 1973

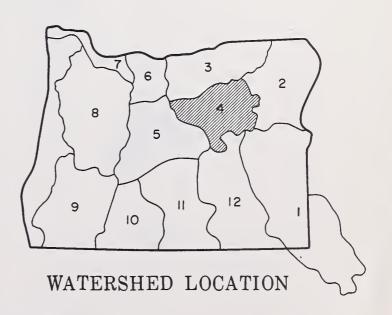
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

JOHN DAY BASIN WATER USERS WILL HAVE MUCH BELOW AVERAGE WATER SUPPLIES. THE MOUNTAIN SNOWPACK IS 30 TO 35 PERCENT OF AVERAGE. SOIL MOISTURE IS BELOW NORMAL. PRECIPITATION DURING APRIL WAS 39 PERCENT OF AVERAGE. STREAMFLOW WILL BE MUCH BELOW AVERAGE THIS SUMMER.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, So. Fork Monument-Kimberly Strawberry Creek	Average Average Fair Fair Average Average Average Average Average Average Average Average	Fair Fair Poor Fair Fair Fair Fair Fair Fair Fair Fai



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	. Average i	
Camas Creek near Ukiah	9.0	46	May-July		19.5	
	9.6	48	May-Sept.		20	
John Day at Prairie City	21	70	May-July		30	
John Day, Middle Fork at Ritter	24 45	71 65	May-Sept.		34	
John bay, Middle Fork at Kitter	48	65	May-July May-Sept.		70 74	
John Day, North Fork at Monument	217	60	May-July		362	
	226	60	May-Sept.		377	
trawberry near Prairie City	5.4	75	May-July		7.2	
	5.9	75	May-Sept.		7.9	

### SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of	THIS YEAR'	S MOISTURE CENT OF:	RIVER BA	r	Number of Courses Averaged	THIS YE WATER AS	AR'S SNOW PERCENT OF
	Stations	Last Year	Average ii	SUB-WATER	RSHED	Averaged	Last Year	Average di
John Day above Dayville John Day, North Fork	6 2	92 86	97 94	John Day, Nort John Day abv.	th Fork Dayville	7 4	20 20	35 30

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



### WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

as of

MAY 1, 1973

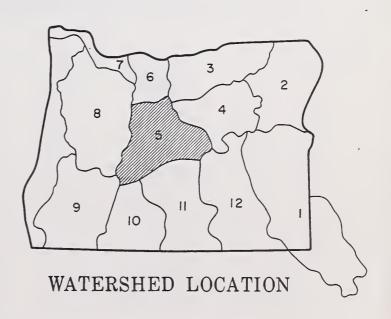
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OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

### GENERAL OUTLOOK

WATER SUPPLIES FOR USERS WITH ACCESS TO STORED WATER WILL BE AVERAGE IN CENTRAL OREGON THIS SUMMER. USERS DEPENDENT ON DIRECT DIVERSIONS WILL HAVE MUCH BELOW AVERAGE SUPPLIES. STORAGE IS ABOVE AVERAGE IN ALL MAJOR RESERVOIRS EXCEPT OCHOCO. THE SNOWPACK IS 50 TO 60 PERCENT OF NORMAL. SOILS ARE DRIER THAN USUAL. APRIL PRECIPITATION WAS 47 PERCENT OF AVERAGE. SUMMER STREAMFLOW WILL BE BELOW TO MUCH BELOW NORMAL.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

WATER SUPPLY UNILOUN Celle	ent with Respect	to Usual Supply.
	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Arnold Irrigation Dist. Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist.	Excellent Average Average Average Fair Average Fair Average Average Average Average Average Excellent Average Excellent	Average Fair Fair Average Fair Average Poor Average Fair Average Poor Fair Fair Excellent Fair Average



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND	ACRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average
Beaver Creek near Paulina	4.9	73	May-July		6.7
	5.1	73	May-Sept.		7.0
Crane Prairie Reservoir Total Inflow	46	67	May-July		68
	72	65	May-Sept.		111
Crescent at Crescent Lake d	12.5	68	May-July		18.5
	17.0	71	May-Sept.		24
Crooked near Post	18	47	May-July		38
,	21	52	May-Sept.		40
Deschutes at Benham Falls <sup>d</sup>	250	82	May-July		305
	427	84	May-Sept.		509
Deschutes below Snow Creek	46	78	May-Sept.	103	59
Deschutes, Little near LaPine <sup>d</sup>	28	46	May-July	83	61
	34	47	May-Sept.	101	73
Ochoco Reservoir Net Inflow	3.0	25	May-Sept.		12.1
Odell near Crescent	19	75	May-Sept.		25
Squaw near Sisters	36	77	May-Sept.	63	47
Tumalo near Bend <sup>d</sup>	33	76	May-Sept.	54	43

### FORECAST DATE of LOW FLOW VALUES

### RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

				MESERVOIR STORAGE C	II W W W W II W	10. 11.7	LIND 01 1	1011111
FORECAST POINT	Low Flow Value	Forecast Date Stream Will Recede to Low	of Low Flow RESERVOIR		Usable	Usable Storage		
	Second/Ft.	Flow Value	Value	KESEKVOIK	Capacity	This Year	Last Year	Average i
Crane Prairie net Inflow Crooked R. near Post Deschutes at Bend Little Deschutes near La Pine	300 100 1500 400 200	* May 19 Aug. 16  * May 28	July 15 June 1 July 1 June 7 July 8	Crane Prairie Crescent Lake Ochoco Prineville Wickiup	55.3 86.9 47.5 153.0 200.0	53.7 89.7 28.3 150.9 183.9	58.7 86.8 45.9 152.4 198.1	45.8 50.7 38.5 147.1 <sup>m</sup> 193.7
*Will not reach this level.								

### SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of		MOISTURE ENT OF:	RIVER BASIN and/or	Number of Courses	THIS YEA	AR'S SNOW PERCENT OF
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Crooked R., Upper Deschutes River	1	89	90	Crooked, Ochoco Deschutes abv. Wickiup Little Deschutes Tumalo & Squaw Crs.	- 1 4 3	- 35 35 30	60 50 50

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

**OREGON** 

**as of**MAY 1, 1973

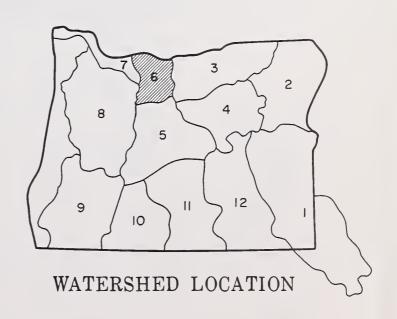
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GENERAL OUTLOOK

THE WATER SUPPLY FOR HOOD RIVER AND LOWER DESCHUTES WATER USERS WILL BE BELOW-AVERAGE DURING THE 1973 SEASON. THE MOUNTAIN SNOWPACK IS 40 PERCENT OF AVERAGE. PRECIPITATION WAS 40 PERCENT OF NORMAL DURING APRIL. LATE SEASON STREAMFLOW ON THE MILE CREEKS WILL BE VERY SHORT. THE SOIL MOISTURE SUPPLY IS NEAR AVERAGE. CLEAR LAKE (WASCO) RESERVOIR IS STORING ABOVE AVERAGE WATER SUPPLIES.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River	Average Fair Average Average Average Average Average Fair Fair Average Fair Average	Fair Poor Fair Fair Fair Fair Poor Poor Fair Poor Poor Fair



TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORE	FORECAST		THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year	Average i
Hood near Tucker Bridge	104	55	May-July		189
	143	59	May-Sept.		243
lood, West Fork near Dee	54	60	May-July		90
	75	67	May-Sept.		112
hite below Tygh Valley	37	43	May-July		86
	47	45	May-Sept.		103
	0.0				

### FORECAST DATE of LOW FLOW VALUES

DECEDVAID CTADACE (Thousand As Et )

FUREGASI DATE UI LUW	ILUW VAL	.013		KF2FK	VUIK 3	TURAGE (	nousand	AC. Ft.)	END OF	MONTH
FORECAST POINT	Low Flow Value	Forecast Date Stream Will	Average Date of Low Flow		RESERV	(OIP	Usable	U	sable Stora	ge
, orecas i out	Second/Ft.	Recede to Low Flow Value	Value		NESCK V	OIK .	Capacity	This Year	Last Year	Average i
Clear Branch Inflow	*28	July 15-31	**39	Clea:	r Lake	(Wasco)	11.9	6.7	12.1	4.9
*Average cfs forecast to flow for this two-week period.										
**Average cfs for period of record.										

### SOIL MOISTURE

### SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

				(COMPARISON WITH PREVIOUS YEARS)					
RIVER BASIN	Number of	THIS YEAR'	S MOISTURE CENT OF:	RIVER BASIN and/or	Number of Courses	THIS YE WATER AS	AR'S SNOW PERCENT OF		
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i		
Hood River, Mile Creeks	1	100	-	Hood River Mile Creeks White River	4 - 3	25 - 25	40 - 45		

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



## WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

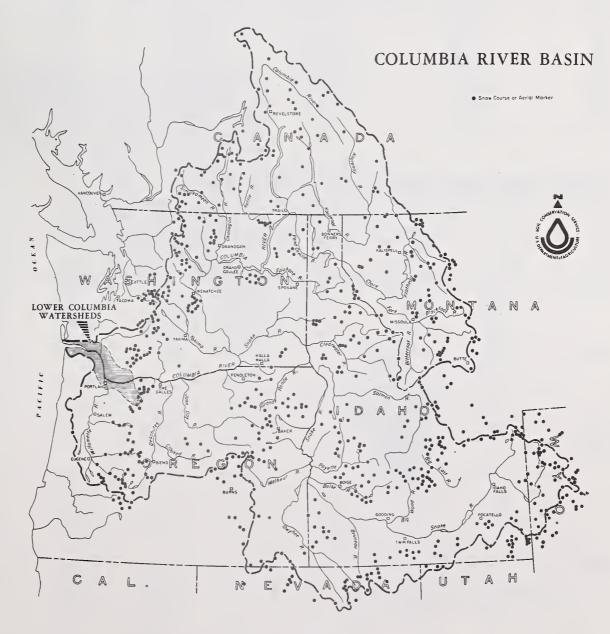
as of

MAY 1, 1973

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### GENERAL OUTLOOK

ALTHOUGH COOL APRIL TEMPERATURES DELAYED A NORMAL SNOWMELT, PRECIPITATION WAS SO LIGHT IN MOST AREAS THAT THE FORECASTS OF STREAMFLOW FOR THE REMAINDER OF THE SEASON HAVE DROPPED PERCENTAGEWISE FROM LAST MONTH. SNOW COVER ON MOST OF THE BASIN RANGES FROM 30 TO 80 PERCENT OF NORMAL. ALTHOUGH STORAGE IN MOST IRRIGATION RESERVOIRS IS ABOVE AVERAGE, THERE WILL BE A NUMBER OF BOTH IRRIGATION AND POWER RESERVOIRS THAT WILL NOT FILL.



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PORTLAND, OREGON 97205

### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or	Number of Courses		AR'S SNOW PERCENT OF
SUB-WATERSHED	Averaged	Last Year	Average 1
Sandy River	2	25	45

STREAMFLOW FORECASTS		THIS YEAR	3	PAST	RECORD
	FORE	CAST	FORECAST	THOUSAND	ACRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average 2
Columbia at The Dalles $d$	44,150 69,350	74 75	May-June May-Sept.	81,356 119696	59,688 92,457
Sandy River near Marmot	149 201	63	May-July May-Sept.		239

### HISTORICAL DATA (Columbia River at The Dalles)

V5.45		STREAMFLOW <sup>(d)</sup> (1,000 A.F.)		PEAK <sup>e</sup>	
YEAR	APR SEPT.	APR. — JUNE	MAY - JUNE	(1,000 c.f.s )	DATE
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

### LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

				DRAINA	GE DISTRICT PUM	PHOUSE		
VANCOUVER	FLOW AT	SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSO
GAGE	THE DALLES			·	RIVER MILES	-		
(Weather Bu.)	(1,000 c.f.s)	118.9	96.0	91.0	77. 0	62.0	52.0	47. 0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
.33	1100	39.6	32.4	31.4	26.7	20.2	<sup>.</sup> 16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	.23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.



## WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

as of

MAY 1, 1973

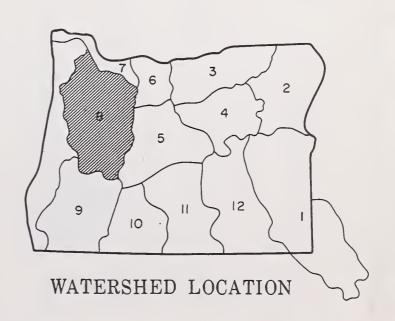
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### GENERAL OUTLOOK

WILLAMETTE BASIN WATER USERS WILL HAVE MUCH BELOW AVERAGE WATER SUPPLIES THIS SEASON. THE MOUNTAIN SNOWPACK RANGES FROM 5 PERCENT OF AVERAGE ON THE CLACKAMAS TO 50 PERCENT ON THE MIDDLE FORK OF THE WILLAMETTE RIVER. PRECIPITATION DURING APRIL WAS 63 PERCENT OF AVERAGE. SOME OF THE MULTI-PURPOSE RESERVOIRS WILL NOT FILL THIS SUMMER.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	eriod
STREAM or AREA	Spring Season	Late Season
Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Fair Fair Fair Fair Fair Fair Fair	Poor Poor Fair Poor Fair Fair Fair



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

		THIS YEAR	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average $i$
lackamas at Estacada	273	60	May-July		455
2 do la cadada	368	65	May-Sept.		455 566
lackamas above Three Lynx	192	55	May-July		348
,	277	63	May-Sept.		442
CKenzie at McKenzie Bridge	227	67	May-July		338
	347	71	May-Sept.		487
CKenzie near Vida	454	60	May-July		754
	647	65	May-Sept.		989
CKenzie, So. Fork near Rainbow	86	58	May-July		148
,	116	65	May-Sept.		178
ak Grove Fork above Power Intake	57	63	May-July		90
	91	71	May-Sept.		128
ow near Dorena	38	65	May-July		58
	41	66	May-Sept.		62
antiam, North at Mehamad	282	55	May-July		513
·	368	60	May-Sept.	1	614
antiam, South at Waterloo	188	56	May-July		337
	243	65	May-Sept.		375
illamette, Mid. Fk. blw. N. Fk. nr. Oakridge	318	65	May-July		490
.,	397	67	May-Sept.		593
illamette, No. Fk. of Mid. Fk. near Oakridge	82	65	May-July		126
,	98	67	May-Sept.		147
illamette at Salem $d$	1544	55	May-July		2783
	2104	64	May-Sept.		3286

### SUMMARY of SNOW MEASUREMENTS

RESERVOIR STORAGE (	Thousand Ac. Ft.)	END OF MONTH
---------------------	-------------------	--------------

COMPARISON WITH PREVIOUS Y	=AKS)			RESERVOIR STORAGE (T	iiousaiiu i	NO. 11./	END OF I	ONTH
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged		AR'S SNOW PERCENT OF Average i	RESERVOIR	Usable Capacity	This Year	Last Year	ge Average
	1					Year	Year	Average
Clackamas River McKenzie River Row River Santiam River Willamette, Mid. Fk.	2 3 2 4 4 4	0 25 45 10 30	5 40 50 20 50	Blue River Cottage Grove Cougar Detroit Dorena Fall Creek Fern Ridge Foster Green Peter Hills Creek Lookout Point Timothy Lake  *Multiple purpose reservoirspace reserved primarily for flood runoff.	85.6* 30.0* 155.2* 299.9* 70.5* 115.0* 94.2* 30.0* 270.0* 200.0* 337.2* 61.7	67.1 27.1 101.1 177.9 65.6 101.7 84.0 23.6 215.8 141.8 152.6 59.8	71.9 24.5 129.5 254.7 53.4 98.6 94.5 25.5 208.2 165.2 245.7 58.9	24.0  231.8 53.8   163.1 290.3 55.3.
				-				

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



### WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS **OREGON**

as of

MAY 1, 1973

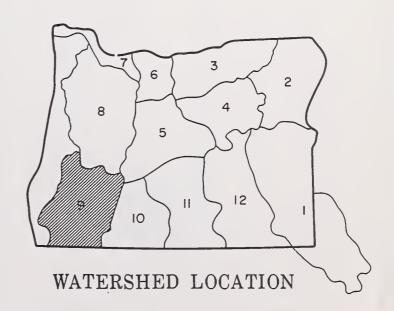
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GENERAL OUTLOOK

BELOW AVERAGE TO MUCH BELOW AVERAGE WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS IN THE ROGUE-UMPQUA BASIN THIS SEASON. THE MOUN-TAIN SNOWPACK RANGES FROM 15 PERCENT OF AVERAGE ON THE NORTH UMPQUA DRAINAGE TO 70 PERCENT ON BUTTE CREEK. APRIL PRECIPITATION WAS 75 PERCENT OF AVERAGE. RESERVOIR STORAGE WILL PROVIDE GOOD SUPPLIES OF WATER TO USERS THAT HAVE ACCESS. SUMMER STREAMFLOW WILL G'ENERALLY BE MUCH LESS THAN USUAL.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	FlowF	eriod
STREAM or AREA	Spring Season	Late Season
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. res.) Evans Creek Gold Hill Irrigation Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek		



STREAMFLOW FORECASTS		THIS YEA	R	PAST RECORD		
	FORECAST		FORECAST	THOUSAND A	ACRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feer	Percent of Average	PERIOD	Last Year	Average i	
Applegate near Copper	44	53	May-July		83	
,	52	57	May-Sept.		.90	
Clearwater above Trap Creek d	60	100	May-Sept.		60	
Fourmile Lake net Inflow	2.6	90	May-July		2.9	
	2.6	90	May-Sept.		2.9	
Hyatt Reservoir net Inflow <sup>d</sup>	2.0	83	May-July		2.4	
Illinois River near Kerby	63	68	May-July		93	
	67	68	May-Sept.		99	
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	7.9	65	May-Sept.		12.3	
Little Butte, S. Fk. near Lake Creek	13.6	72	May-July	13.1	19.2	
	15.8	72	May-Sept.	16.4	22	
Rogue above Prospect	125	65	May-July		192	
D	165	65	May-Sept.		249	
Rogue, South Fork near Prospect	32	70	May-July		46	
	42	74	May-Sept.		57	
Rogue at Raygold near Central Point	369	70	May-July	634	525	
Daniel de Caracter D	497	73	May-Sept.	835	685	
Rogue at Grants Pass	d 473	71	May-Sept.		662	
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls	103	70	May-Sept.		147	

### FORECAST DATE of LOW FLOW VALUES

RESERVOIR	STORAGE	(Thousand	Ac.	Ft.)	END OF MONTH

Low Flow Stream Will Average Date Stream Will of Low Flow		Usable	Jsable Usable Storage				
Second/Ft.	Flow Value	Value	RESERVOIR	Capacity	This Year	Last Year	Average i
100 1200 *1270 * 990	May 1 July 6 July 1 Aug. 15	May 27 Aug. 7	Emigrant Lake Fish Lake Fourmile Lake Howard Prairie Hyatt Prairie	39.0 8.0 16.1 60.0 16.1	36.2 7.6 12.2 49.5 12.1	38.4 8.1 14.4 60.6 15.2	36.7* 6.4 11.8 40.1 14.2
			(COMPARISON WITH PREVIOUS	YEARS)	1 -	THIS YEAR	2'S SNOW
			RIVER BASIN and/or SUB-WATERSHED	Cours	es WA	TER AS PE	
			Applegate Bear Creek Butte Creek Illinois River North Umpqua Rogue River	1 3 4		10	70 - 15 55
	Value Second/Ft. 100 1200 *1270	Value Second/Ft. Stream Will Recede to Low Flow Value  100 May 1 1200 July 6 *1270 July 1	Value Second/Ft. Stream Will Recede to Low Flow Value of Low Val	Stream Will Recede to Low Flow Value   Stream Will Recede to Low Flow Value   Stream Will Recede to Low Flow Value   RESERVOIR	Stream Will   Research to Low Flow Value   Reservoir   Reservoir	Stream Will Recede to Low Flow Value  100	Name

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



### WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of

MAY 1, 1973

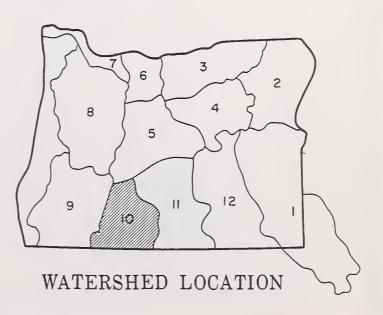
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### GENERAL OUTLOOK

KLAMATH BASIN WATER USERS WILL HAVE AVERAGE TO BELOW AVERAGE WATER SUPPLIES DURING THE 1973 SEASON. THE MOUNTAIN SNOWPACK RANGES FROM 20 TO 50 PERCENT OF NORMAL, EXCEPT ON THE LOST RIVER DRAINAGE IN CALIFORNIA WHERE IT IS ABOVE NORMAL. RESERVOIR STORAGE IS ABOVE AVERAGE AND WATER USERS WITH ACCESS WILL HAVE ADEQUATE WATER SUPPLIES. STREAMFLOW WILL BE 50 TO 70 PERCENT OF NORMAL AND USERS DEPENDENT ON DIRECT DIVERSION WILL EXPERIENCE SHORTAGES. APRIL PRECIPITATION WAS 31 PERCENT OF AVERAGE.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Pe	Flow Period			
STREAM or AREA	Spring Season	Late Season			
Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	Fair Average Average Average Fair Average Fair	Poor Average Average Poor Average Poor			



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
BASIN, STREAM and/or FORECAST POINT	FORECAST Thousand Percent of		FORECAST PERIOD	THOUSAND ACRE FEET  Last Year Average		
Clear Lake Reservoir Inflow Gerber Reservoir Inflow Sprague near Chiloquin Upper Klamath Lake net Inflow k Williamson below Sprague River	11.7 2.5 100 230 184	78 51 48 55 56	May-Sept. May-Sept. May-Sept. May-Sept. May-Sept. May-Sept.	389	15.1 •5.0 208 419 331	

### SOIL MOISTURE

RESERVOIR	STORAGE (Thousand	Ac.	Ft.)	END OF MONTH
-----------	-------------------	-----	------	--------------

RIVER BASIN	Number	as PERCENT OF:		of as PERCENT OF: PESERVOIR		as PERCENT OF:   BESERVOIR U		f as PERCENT OF: PESERVOIR		as PERCENT OF: PESERVOIR		of as PERCENT OF: PESERVOIR		f as PERCENT OF: PESERVOIR		of as PERCENT OF: PESERVOIR		f as PERCENT OF: PESERVOIR							Usable Sto	rage
	Stations	Last Year	Average i	KESEKVOIK	Capacity	This Year	Last Year	Average i																		
Upper Klamath	1	92	100	Clear Lake Gerber Upper Klamath Lake	440.2 94.0 584.0	325.4 71.8 516./2	416.3 94.6 538.5	266.5 65.5 519.2																		
				SUMMARY OF SNOW ME (COMPARISON WITH PREVIOUS  RIVER BASIN and/or SUB-WATERSHED		of W	THIS YEA ATER AS PI St Year	R'S SNOW ERCENT OF Average i																		
				Lost River Sprague River Upper Klamath Williamson River	2 3 5 3		00 60 25 15	160 50 35 20																		

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

**as of**MAY 1, 1973

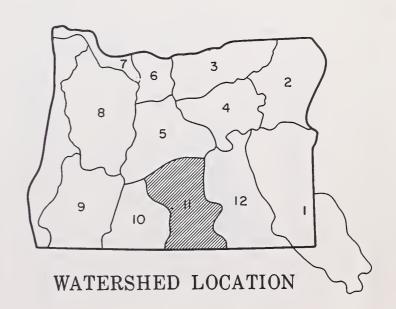
U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

### GENERAL OUTLOOK

STREAMS DRAINING THE WARNER MOUNTAINS WILL HAVE NEAR AVERAGE WATER SUPPLIES THIS SEASON. WATER SUPPLIES IN THE REMAINDER OF LAKE COUNTY WILL BE BELOW AVERAGE TO MUCH BELOW AVERAGE. SOIL MOISTURE BENEATH THE SNOWPACK IS BELOW AVERAGE EXCEPT IN THE WARNER MOUNTAINS WHERE IT IS AVERAGE. PRECIPITATION DURING APRIL WAS 48 PERCENT OF AVERAGE.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period				
STREAM or AREA	Spring Season	Late Season			
Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes	Fair Average Fair Average Average Average Fair Poor Fair Fair Average Average	Poor Fair Average Fair Fair Fair Average Fair Poor Poor Fair Average Average			
	·				



STREAMFLOW FORECASTS		THIS YEA	PAST RECORD			
	FOR	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average	
Chewaucan near Paisley	27	47	May-July	55	. 58	
onewaddan near raisie,	31	50	May-Sept.	59	62	
Deep above Adel	40	94	May-July	53	42	
	40	91	May-Sept.	55	44	
Drews Reservoir net Inflow $^d$	4.4	40	May-July		11.3	
Honey near Plush	6.8	65	May-July	10.0	10.5	
•	8.2	77	May-Sept.	10.2	10.7	
Silver Creek near Silver Lake	9.3	50	May-July	14.2	12.1	
	10.0	50	May-Sept.	18.4	14.0	
Twentymile near Adel	8.5	89	May-July		9.6	
	8.6	86	May-Sept.		10.0	

### SOIL MOISTURE

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RIVER BASIN	Number of	THIS YEAR'	S MOISTURE CENT OF:	RESERVOIR	VOIR USAble			sable Storage	
KIVEK BASIN	Stations	Last Year	Average i	KESEKVOIK	Capacity	This Year	Last Year	Average i	
Chewaucan, Silver Creek Drew Creek Honey, Deep, 20-Mi. Cr.	1 1	92 100	100 100	Cottonwood Drews  *Average for years of record (in base period) after reconstruction.	8.7 63.0	6.4 60.7	7.9 61.8	5.8*	
				SUMMARY OF SNOW ME (COMPARISON WITH PREVIOUS RIVER BASIN and/or SUB-WATERSHED		er of V	THIS YEA WATER AS PI Last Year	R'S SNOW ERCENT OF Average i	
				Chewaucan River Deep Creek Drew Creek Honey Creek Silver Creek Twentymile Creek	3 2 2 1 -		45 90 - 0 -	55 135 35 0 -	

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



### WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of

MAY 1, 1973

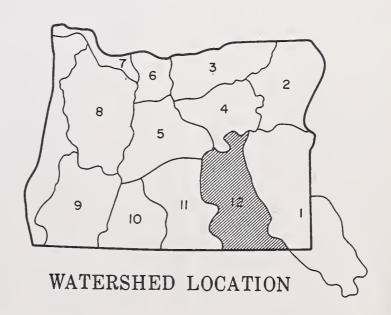
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

### GENERAL OUTLOOK

THE TROUT CREEK AREA WILL HAVE MUCH ABOVE AVERAGE WATER SUPPLIES; THE STEENS MOUNTAINS WILL BE NEAR AVERAGE. THE SUPPLY WILL BE BELOW AVERAGE IN THE NORTH PART OF THE COUNTY. THE SNOWPACK AS MEASURED ON APRIL 1 WAS ABOUT 2 TIMES NORMAL ON TROUT CREEK AND NEAR NORMAL IN THE STEENS MOUNTAINS. THE MAY 1 SNOWPACK ON THE SILVIES DRAIN-AGE IS 25 PERCENT OF NORMAL. PRECIPITATION DURING APRIL WAS 41 PERCENT OF NORMAL.

### WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period				
STREAM or AREA	Spring Season	Late Season			
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek	Average Fair Average Fair Fair Fair Fair Excellent Excellent	Fair Fair Average Fair Fair Fair Fair Average Average			



TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD THOUSAND ACRE FEET		
	FOR	FORECAST			
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year	Average i
Donner und Blitzen near Frenchglen	39	99	May-July		40
0.1	45	100	May-Sept.		45
Silver near Riley Silvies near Burns	3.0 18.3	45 47	May-July	20	6.7
STIVIES HEAT BUINS	22	53	May-July May-Sept.	29 - 31	39 41
Trout near Denio	7.3	133	May-July	6.1	5.5
	7.2	120	May-Sept.	6.8	6.0
	*				
				-	
	,				
		1			

### SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural-flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

### **BASIC DATA SUPPLEMENT 1**

MAY 1, 1973

Antelope Ridge (Ida.)   S/1   0   0.0	SNOW	TH	IIS YE	AR	PAS	T REC.	SNOW	TI	HIS YE	EAR	PAST	REC
OWYHEE, MALHEUR NATERSHIDS Antelope Ridge (Ida.) Battle Creek* (Ida.) Battle Creek* (Ida.) Battle Creek* (Nev.) Big Bend (Nev.) Bulls Mourtain (Springs Buckskin, Lower (Nev.) Bulls Basin* (Ida.) Call Meadows Columbia Basin* (Nev.) Columbia Basin* (Nev.) Big Bend (Ida.) Call Meadows Columbia Basin* (Nev.) Columbia Basin* (Nev.) Bisster Peak* (Nev.) Columbia Basin*	DRAINAGE BASIN and/or SNOW COURSE	of	Depth	Cont	(inc	thes)	DRAINAGE BASIN and/or SNOW COURSE	of	Depth	Cont.	(inc	
Anthology Ridge (Ida.)   S./1   0   0.0   -   -   -		<u> </u>			11.						1. Yr.	
Marticle Creek (Ida.)	OWYHEE, MALHEUR	NATE	RSHE:	DS						I RONDE	,	
Bear Creek			0	0.0				1	1	27 8	10 2	70
Big Bend (Nev.) Blue Mountain Springs Blue Min. Springs Pillow* Buck Pasture 6 Buckskin, Lower (Nev.) Bull Basin 6 (Ida.) Call Meadow 7 Call Meadow 8 Call Meadow 9 Catomonod-Indian 7 Cottomood-Indian 8 Carear Prairie (Nev.) Blue Mountain (Nev.) Blue Mountain 8 Call Meadow 9 Catomonod-Indian 6 Call Meadow 9 Carear Prairie (Nev.) Blue Mountain 8 Call Meadow 9 Carear Prairie (Nev.) Blue Mountain 8 Call Meadow 9 Carear Prairie (Nev.) Blue Mountain 8 Call Meadow 9 Carear Prairie (Nev.) Blue Mountain 8 Call Meadow 9 Carear Prairie (Nev.) Fish Creek (Nev.) Fig Prairie (Ida.) Jack Creek, Lower (Ida.) Solum Blue Mountain 8 Call Meadow 9 Call M			76	29.0	24.0	19.4 h						
Blue Muntain Springs   4/30						0.9h	Anthony Lake	4/27	49	18.7	43.2	30.0
Back Pasture* Buckskin, lower (Nev.) Bull Basin* (Ida.) Bull Basin* (Ida.) Bull Basin* (Ida.) Bull Basin* (Nev.) Columbia Basin* (Nev.) Corane Prairie Paw Creak* (Nev.) Fish Creek* (Nev.) Fish Creek* (Nev.) Fry Canyon (Nev.) Bry Carnyon (Nev.) Bry Carnyon (Nev.) Jack Creak, Lower (Nev.) Jack Creek, Nev.) Ja	Blue Mountain Springs				ł	8.4 h						
Buckskin, Jover (Nev.)   c   Bull Basine (Ida.)   c   Bull Basine (Ida.)   c   Bull Basine (Ida.)   c   c   Call Meadow (Carane Prairie (Nev.)   c   Courbina Basine (Nev.)   c   Courbina Bas			-	0.2	8.8							6.9
Buckskin, Upper (Nev.) c c Bully Creek (2 c) Bully Creek (2 c) Columbia Bassin (Nev.) Cottomood-Indian (2 c) Crane Prairie (3 c) Crane Prairie (4 c) Crane Prairie (5 c) Crane Prairie (7		1										22
Bull Basin (Ida.)		1									1	1.
Call Meadows ( 0		C	}					4/26	5		10.6	7.
Columbia Basin (Nev.)   C   Cottomwood-Indian   Cottomwood-Indian		c								5		1.
Cottomwood-Indian									1			1.
Crane Prairie Disaster Peak (Nev.) Fish Creek (Nev.) Fish Creek (Nev.) Fish Creek Pillow* Fax Creek (Nev.) Fish Creek Pillow* Fax Creek (Nev.) Fish Creek Pillow* Fish Creek Pillow* Fish Creek (Nev.) Fish Creek Pillow* Fish Creek Nev.) Fish Creek Pillow* Fish Creek Pillow* Fish Creek Pillow* Fish Creek Nev.) Fish		-								1		4.
Disaster Peak (Nev.)   C   C   C   C   C   C   C   C   C		1	1 0	0.0	0.6				1	1		4.
Eldorado Pass   4/30   0   0.0			~	""	""							27.
Fish Creek Pillow* Fish Creek Pi		1 .	0	0.0	0.0	0.0 m	Intake House			1		-
Tish Creek Pillow* ** c		1										i
Plag Prairie*		l *							,			-
Fay Carek (Nev.) Fay Canyon (Nev.) Stantie Peak (Nev.) Fay Canyon (Nev.) Stantie Peak (Nev.) Fack Creek, Lower (Nev.) Jack Creek, Lower (Nev.) Jac										l .		0.
Try Canyon (Nev)	•	c										2.
Solid Creek (Nev.) oranite Peak (Nev.) oranite		4/23	1	0.3	0.0	$1.0 \dot{h}$		1	1	55.0		74.
Yellow   Pasture   Yellow									4			21.
Cack Creek, Lower (Nev.)         4/26         0         0         0.0         0.0         0.2 h Scholmarm         5/1         0         0.0         0.0         0.0         0.2 h Scholmarm         5/1         0         0.0		_										-
Tack Creek, Upper (Nev.)   4/26   18   8.0   5.3   3.5 h   3								1	1			
Ack Peak (Nev.)						3 5 h	Standleve		_			1
Ask Creek R.S.   4/30   0   0.0						26.6 h	Taylor Green					-
Laurel Draw (Nev.) Logan Valley* Logan Valley* Lookout Butte* Louse Canyon e Martin Creek (Nev.) Merritt Mountain (Nev.) Midase* (Nev.) Mud Flat (Ida.) Dregon Canyon Quinn Ridge* (Nev.) Rock Spring Rode Orline Rock Spring Rode Orline Silvies City (Ida.) Silvies Silvies Silvies Silvies Silvies Stag Mountain* (Nev.) Stag Mountain*	•							1	1			1.
TV Ridge * 4/29 36 15.1 31.7 -  Lookout Butte*	Laurel Draw (Nev.)			1	I .		Tipton Snow Pillow*		1	0.7		-
Louse Canyon e Martin Creek (Nev.) Midase (N		1										18.
Arbuckle Mountain (Nev.) Arbitric Creek (Nev.) Arbuckle Mountain (Nev.) Battle Mountain Summit (Nev.) Battle Mountain Summit (Nev.) Battle Mountain (Nev.) Battle Mount		]					TV Ridge e	4/29	36	15.1	31./	-
### Mountain (Nev.)   C		1										
## Add Flat (Ida.) ## Dregon Canyon (Quinn Ridge* (Nev.) ## Rock Spring (Nev.) ## Rock S		c										
Company   Canyon		c					•					
Comparison   Com	fud Flat (Ida.)	1 1 -	0	0.0								
Red Canyone (Ida.) Rock Spring Rodeo Flat (Nev.) Rock Spring Ratuckle Mountain Ratuckle Mountain Rock Mr. Pillow* Rock Summit Rock Flat (Nev.) Rock Spring Ratuckle Mountain Rock Rock Nov. Plate Rock Rock Rock Rock Rock Rock Rock Rock		1 1					UMATILLA, WALLA WAI	LA, W	ILLO	W, RO	CK,	
Rock Spring         4/27         0         0.0         0.0         0.2         Arbuckle Mountain         5/1         0         0.0         1.3         2         2         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         14.1         34.5         -         -         14.1         34.5         -         -         14.1         34.5         -         -         4.26         0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>LOWER JOHN DAY</td><td>WATE</td><td>RSHE</td><td>DS</td><td></td><td></td></td<>							LOWER JOHN DAY	WATE	RSHE	DS		
Rodeo Flat (Nev.)         4/23         7         2.5         0.0         1.2 h 24.0   Battle Mountain Summit         5/1 -   4.1   34.5   -   0.0				0 0	0.0	0.2	Arbuckle Mountain	5/1	0	0.0	1.3	2.
Silvier City (Ida.). Silvies Silvies Pillow* South Mountain #2 (Ida.) Stag Mountaine (Nev.) Stag Mountaine (Ne												-
Silvies Pillow* South Mountain #2 (Ida.)		''			24.0	1 .				1		0.
Silvies Pillow* South Mountain #2 (Ida.) Stag Mountaine (Nev.) Stinking Water Succor Creek (Ida.) Saylor Canyon (Nev.) Stremewan Ranch (Nev.) Stringle (Ida.) Strout Creeke Vu Lakee Vaught Ranche (Ida.) Var Eagle (Ida.)  Manometer Reading  Silvies Pillow*  4/30  4/30  8  2.8  2.8  2.8  2.8  2.8  2.8  2.8			11	4.7	21.5	$ 6.7^{h}$		1	0	0.0	17.4	1
South Mountain #2 (Ida.) Stag Mountain e (Nev.) Stinking Water Succor Creek (Ida.) Caylor Canyon (Nev.) Criangle e (Ida.) Crout Creek V'' Lake e Vaught Ranch e (Ida.)  Manometer Reading  8 2.8 12.8 4/26 0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		1						1		0.0	0.0	1
Stag Mountain (Nev.) Strinking Water Succor Creek (Ida.) Saylor Canyon (Nev.) Strinke Clucky Strike Pillow* Meacham Tollgate Weston Mountain  Lucky Strike Pillow* Meacham Tollgate Weston Mountain  Lucky Strike Pillow* Meacham Tollgate Weston Mountain  Stag Mountain (Nev.) Meacham Tollgate Weston Mountain		_	. 8	2 8	12.8					1		-
Stinking Water Succor Creek (Ida.) Saylor Canyon (Nev.) Soe Jam (Nev.) Stremewan Ranch (Nev.) Strike Pillow* Meacham Stollgate Weston Mountain  Succor Creek (Ida.) Stremewan Ranch (Nev.) Strike Pillow* Meacham Stollgate Succor Creek (Ida.) Strollgate Succor Creek (Ida.) Succor Cree				2.0	12.0							8.
Taylor Canyon (Nev.)  Toe Jam e (Nev.)  Tremewan Ranch (Nev.)  Triangle e (Ida.)  Trout Creeke  "V" Lake e Vaught Ranch (Ida.)  Var Eagle e (Ida.)  Manometer Reading  4/26  0  0.0  0.0  0.1  Tollgate  Weston Mountain  4/26  0  0.0  0.1  Tollgate  Weston Mountain  4/26  0  0.0  0.0  0.1  Tollgate  Weston Mountain  4/26  0  0.0  0.0  0.0  0.0  0.0  0.0  0.0		4/26	0	0.0	0.0		Lucky Strike Pillow*					-
Coe Jam e (Nev.) Cremewan Ranch (Nev.) Criangle e (Ida.) Crout Creeke V'' Lake e Vaught Ranche (Ida.) Var Eagle e (Ida.)  Manometer Reading  Weston Mountain  4/26 0 0.0 0.0 0.0  Weston Mountain  4/26 0 0.0 0.0 0.0  Weston Mountain	Succor Creek (Ida.)						Meacham		1			
Tremewan Ranch (Nev.)  Griangle (Ida.)  Grout Creek C  V'' Lake C  Vaught Ranch (Ida.)  Var Eagle (Ida.)  Manometer Reading			0	0.0	0.0	0.1						
Triangle (Ida.)  Trout Creek C  V'' Lake C  Vaught Ranch (Ida.)  Var Eagle C  Vanometer Reading		1		0.0	0.0		weston Mountain	4/20		0.0	0.0	"
Trout Creek c c c v'' Lake c c c vaught Ranch c (Ida.) c c var Eagle c (Ida.) c c vanometer Reading			,		0.0							
Vaught Ranch <sup>e</sup> (Ida.) c Var Eagle e (Ida.) c Manometer Reading		c										
War Eagle <sup>e</sup> (Ida.)  Manometer Reading	''V'' Lake <sup>e</sup>	1										
	Manometer Reading											

### BASIC DATA SUPPLEMENT 1 MAY 1, 1973

SNOW	TH	IIS YE	AR		REC.	SNOW	TI	HIS YE	AR		r REC.
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Cont.		Content hes)	DRAINAGE BASIN and/or SNOW COURSE		Snow Depth	Water Cont.		Conten hes)
JRAINAGE BASIN and/ of SNOW COURSE	Survey	(In.)	(In.)	Last Yr.	Aveli	DRAINAGE BASIN and/or SNOW COURSE	Survey	1	(In.)	Last Yr.	Avel
-											
UPPER JOHN DAY WAT	। ERSHEI	i OS				HOOD, MILE CREEKS	. LOWE	I ER DE	l SCHUI	l CES	
Anthony Lake	4/27		18.7	43.2	30.0 7	*******					1
Arbuckle Mountain .	5/1	0	0.0	1.3	2.8 h	Brooks Meadows	c				1
Arbuckle Mtn. Pillow*	5/1	-		34.5		Clear Lake	4/26	I .		10.8	
Battle Mountain Summit	4/24 4/27			0.0	0.3 m 0.6 h		4/26	2	0.8	18.5	8.3
Blue Mountain Springs	4/2/			0.0	8.4 h	Cooper Spur #2 Greenpoint	c			0.0	- '
Blue Mtn. Springs Pillow*	4/30					Knebal Springs	c				
Blue Mountain Summit	4/30	2	0.0		1.9	Parkdale	c				
Butte Creek Summit	C					Phlox Point	4/26	71	33.1	113.0	65.
Derr Gold Center	1/26	0	0.0	2.7 5.4	4.3 h	Red Hill Still Creek	4/26	13	E 1	37.0	10
Indian Creek Butte	c 4/20		0.0	3.4		Still Cr Alt #2	4/26	17		38.1	
Izee Summit	4/27	0	0.0	Т	$2.0^{h}_{h}$	Switchback	c	-	, , ,		-
Lucky Strike	4/30			19.4	8.5 h	Tilly Jane	c				
Lucky Strike Pillow*	4/30		0.0		h	Ulrich Ranch Junction	C			120 0	
Marks Creek Ochoco Meadows	4/26 c	0	0.0	0.0	T	Umbrella Falls Upper Valley	4/30 c	/1	32.8	120.9	-
Olive Lake e	4/30	19	7.0	22.5	17.5 h	opper variey					
Schoolmarm .	5/1	0	0.0	0.0	0.5	·					
Snow Mountain	<b>c</b> ,						1				
Snow Mtn. Pillow**	5/1	-	4.1		h	WILLAMETTE	WATER	SHEDS	5		
Starr Ridge	4/27 4/30	0	0.0		$0.6 \frac{h}{h}$	Cascade Summit	4/30	)	1	36.9	125
Tipton Tipton Snow Pillow*	4/30		0.7		1.0	Champion	4/30			34.6	
Williams Ranch	, c_		0.7			Clackamas Lake	c		10.0		
	_					Clear Lake	4/26	0		10.8	
						Clear Lake (Expt.)	4/26	2		18.5	8.
. *						Dead Horse Grade Detroit (Town)	4/28 4/30			19.8	11.
						Detroit Dam	4/30			0.0	1
						Golden Curry Creek	4/27	1		0.0	3.
UPPER DESCHUTES, O	DOORE	ן ו	renem	ZDC		Hogg Pass	4/30		12.1	67.5	
						Lake Harriet	. c			0.0	0.0
Bald Peter Caldwell Ranch	4/30 c.	30	11.6			Laurel Mountain Layng Creek	<i>c</i> 4/27	0	0.0	2.6	0.0
Cascade Summit	4/30	26	11:0	36.9	25.3 h	Lookout Point Dam	4/30	0	0.0	0.0	0.
Chemult	5/1	0	0.0		0.8	Lost Creek Ranch	4/28	1	0.0	0.0	0.
Chemult Alternate	5/1	0	0.0	1		Lund Park	4/27	0	0.0	0.0	0.
Derr	C 4 170	70	10 1	2.7		Marion Forks	4/30 c	0	0.0	8.8	3.
Hogg Pass Hungry Flat	4/30	30	12.1		41.6	Marys Peak (Alt.)	c				1
Irish-Taylor Pillow**	5/1	-		71.3		McCredie Springs	4/30	0	0.0	0.0	0.0
Marks Creek	4/26				Th	McKenzie	4/28			79.0	
New Crescent Lake	4/27		0.0		5.1	McKenzie Bridge	4/28				
New Dutchman Flat #2	4/27	64	32.7	87.8	54.3	Mill City	4/30 4/30		0.0	1	
Ochoco Meadows Racing Creek	4/30	0	0.0	- <b>-</b>		Oakridge Peavine Ridge Pillow**	4/30	-		26.6	
Snow Mountain	· c		0.0			Phlox Point	4/26	71		113.0	
Snow Mtn. Pillow**	5/1	-	4.1	ı		Railroad Overpass	4/30			0.0	4
Tamarack	C	_		0.0		Saddle Mountain Pillow**	5/1	- 7	0.0		1 .
Tangent	4/27 4/26		0.0		11.9 l 2.6 h	Salt Creek Falls Santiam Junction	4/30 4/30			17.7 27.5	
Three Creek Butte Three Creek Meadow	4/26	1 1		23.9		Seine Creek Pillow**	5/1	-	0.0		
Three Creek Mdw. Pillow**	5/1	_		32.3		Still Creek	4/26	13	5.1	37.0	
Waldo Lake	c					Still Creek Alt. #2	4/26	17	6.7	38.1	-
Willamette Pass	4/27	55	24.5	60.5	42.4	Timothy Lake	b			19.1 T	1
Willamette Pass Pillow**	b					Valsetz Summit Vida	4/28	0	0.0	_	0.
						Waldo Lake	c c		0.0	0.0	
						Weaver Creek	4/27				0.
						White Branch Slide	4/28		0.0		1.
						Whitewater Bridge	4/30		0.0		12
						Willamette Pass Willamette Pass Pillow**	4/27 b	55	24.5	60.5	42.
*Manometer reading.						willamette rass rillow^^				_	
**Telemetry reading.											
,											

### BASIC DATA SUPPLEMENT 1 MAY 1, 1973

SNOW	THIS YEAR PAST REC. SNOW							THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)			Content thes)	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Depth	Cont.	Water (inc	Conter hes) Ave.	
ROGUE, UMPQUA	WATER:	SHEDS	 			KLAMATH WATERSH	IEDS					
Althouse	C					Annie Spring	4/29	74		54.4		
Althouse #2	C			<u>.</u>		Billie Creek Divide	4/27	21		20.9		
Annie Spring	4/29	74		54.4 T	43.1	Chemult (Alternate)	5/1 5/1	0	0.0	0.0	0.8	
Beaver Dam Creek Big Red Mountain	5/1	"	0.0	1		Chiloquin (PP&L)	3/1 c		0.0			
Billie Creek Divide	4/27	21	9.4	20.9	13.9 h		4/26	51	22.8	48.6		
Caliban	4/24	.69		40.5		Cold Springs Camp Pillow**	4/30	-		37.6	1	
Champion	4/27		t .		$26.3^{h}$		4/24	4	1.4	2.4		
Cold Springs Camp	4/26			48.6		Crowder Flat (Calif.)	c c					
Cold Springs Camp Pillow** Deadwood Junction	4/30	0	1	37.6		Crystal (PP&L) Diamond-Crater Summit	4/30	36	15 4	47.7	36 1	
Diamond-Crater Summit	4/30	_			36.1 h	Diamond-Crater Sum. Alt.	4/30			43.4		
Diamond-Crater Sum. Alt.	4/30		14.8			Diamond Lake Jct. (97)	4/30	0		0.0	0.0	
Diamond Lake	4/30	i .	3.8	26.1	$16.8_{h}^{1}$	Dog Hollow <sup>e</sup>	c					
Fish Lake	4/26	1		6.4		Finley Corrals e	4/24	11	4.1	9.6		
Fourmile Lake	4/26	33	15.8	23.4	21.6	roll Klamach (Frqu)	C.	7.7	1	27.4	21 (	
Grayback Peak	C	0		0.0		Fourmile Lake Gerber	4/26 c	33	15.8	23.4	21.0	
Howard Prairie Reservoir Hyatt Prairie	5/1 c	0	0.0	0.0		Harriman (PP&L)	С					
King Mountain #1	4/26	Т	Т			Hyatt Prairie Reservoir				0.0		
King Mountain #2	4/26					Kirk (PP&L)	C					
King Mountain #3	4/26		0.0			Lake of the Woods	4/26	1		1		
King Mountain #4	4/26			1		Park Headquarters	4/29	98		89.1		
King Mountain #5	4/26		1	1		Quartz Mountain Quartz Mountain (Ext.)	4/26	1		1	0.	
King Mountain #6 Little Red Mountain	4/26 ic	0	0.0	0.0		Seven Lakes #2	4/20	0	0.0	0.0	-	
Mt. Ashland Switchback	4/24	69	27.8	33.8		Seven Mile	С					
Mule Creek	4/26					State Line e (Calif.)	c					
North Umpqua	5/2	0		8.3	5.3 h		4/25	,	1		1.	
Page Mountain	C					Summer Rim <sup>e</sup>	4/23	24	8.9	12.8	-	
Park Headquarters	4/29		l	89.1	59.1	Summer Rim Pillow*	C				-	
Red Butte #1	4/25		0.2	6.8	12.6 h	Sycan Flat	<i>c</i> 4/26	0	0.0	0.0		
Red Butte #2 Red Butte #3	4/25				$\begin{vmatrix} 3.7 \\ 1.2 \end{vmatrix}$	Taylor Butte	4/20	0	0.0	0.0	-	
Red Butte #4 .	4/25				0.0 m							
Red Butte #5	4/25		1		0.0 m							
Red Butte #6	4/25		0.0	0.0	0.0 7		. 3					
Seven Lakes #2	ic;						1					
Seven Mile	C				3.0 h	LAKE COUNTY, GOOSE	LAKE	WATE	RSHED	S		
Silver Burn Siskiyou Summit	4/30		1	0.0	3.0	Adin Mountain (Calif.)	5/1	8	3 1	1.7	3.	
Siskiyou Summit Alt. #2	4/27			1		Bald Mountain (Nev.)	c .		3.1		"	
Ski Bowl Road	4/24	38		22.5	1 1	Bear Flat Meadow e	С					
South Fork Canal	4/30		0.0	0.0	$10.0_{\dot{w}}$	Camas Creek	4/30		1	2.3		
Trap Creek	5/2	0	0.0	3.9	5.4 h	Cedar Pass (Calif.)	4/26	41	17.0	17.6	9.	
Whaleback	C					Colvin Creek e Cox Flat e	C					
						Crowder Flat (Calif.)	c					
·						Dismal Swamp e (Calif.)	С					
						Finley Corrals <sup>e</sup>	4/24	11	4.1	9.6	-	
						Hart Mountain <sup>e</sup>	C					
						Little Bally Mtn. (Nev.)	C					
						Mt. Bidwell (Calif.)	C					
				İ		North Star (Calif.) Patton Meadows e	4/24	36	13 3	9.2	-	
					1	Quartz Mountain	4/26			0.0		
						Quartz Mountain (Ext.)	4/26			0.0	-	
						Sherman Valley <sup>e</sup>	С					
						Silver Creek	С					
						State Line (Calif.)	C 4/25		0.7	T	1.	
						Strawberry Summer Rim <sup>e</sup>	4/25 4/23			12.8	1.	
						Summer Rim Pillow*	4/23	24	0,9		-	
						Sycan Flate	с					
						Willow Creek <sup>e</sup>	С					
*Manometer Reading.									•			
**Telemetry Reading.	<u>L</u>	L						L				

### BASIC DATA SUPPLEMENT 1 MAY 1, 1973

SNOW	TH	IIS YE	AR	PAST	REC.	SNOW	TI	HIS YE	AR	PAST	REC
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Depth	Cont.	(inc	Content hes)	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Depth	Water Cont. (In.)	Water ( (inch Last Yr.	onter nes)
HARNEY BASIN I	WATER	SHEDS	S -								
Blue Mountain Springs Blue Mtn. Springs Pillow* Buck Pasture e Buckskin Lake e Call Meadows e Delintment Lake Denio Creek e Disaster Peak (Nev.) Emigrant Butte Fish Creek Fish Creek Pillow*	4/30 4/30 c c c c c			16.3	8.4 <sup>h</sup>						
Hart Mountain e Idlewild Camp Idlewild Camp (Alt.) Izee Summit Lake Creek R.S. Oregon Canyon e Rock Spring Silvies	c 5/1 5/1 4/27 4/30 c 4/27	0	0.0 0.0 0.0	Т	0.9 <sup>h</sup>   2.0 <sup>h</sup>   0.2	-					
Silvies Pillow* Snow Mountain Snow Mountain Pillow** Starr Ridge Stinking Water Trout Creek e ''V'' Lake e	c c 5/1 4/27 4/26 c			Т	0.6 <sup>h</sup>						
,	. =			-							
	٠.		·								
flow. (e) Aerial s (h) 1953–67 adjuste	now de ed aver	pth go age.	age, wa (i) 195	iter con 3–67,	itent est 15 year	1 No report. (c) Not scheduled. (d) Cor imated. (f) Nearest current data. (g) average. (j) Telephonic report — data ige or 5 or more years in base period.	Partly .	estimo	ited.		
*Manometer reading.  **Telemetry reading.											

### BASIC DATA SUPPLEMENT 2 MAY 1, 1973

### SOIL MOISTURE

DRAINAGE BASIN and/or S			e (Inches)	Date of Survey	Soil	Moisture (Inc	
Name	Elevation	Depth	Capacity	Survey	Year	Year	Average
	OWYHEE, MAL		1				
Bear Creek (Nev.)	7800	72	16.8		16.0 <sup>g</sup>	13.5	16.4 h
Big Bend (Nev.)	6700	48	16.7	C 4/70	17.5	10.0	10.5 <sup>h</sup>
Blue Mountain Spring	5900 5375	42 48	16.9 18.2	4/30 4/30	13.5 17.6	12.3 17.8	13.2 17.7
Crane Prairie Jordan Valley	4390	48	19.3	4/30	16.8	16.7	17.7
Mud Flat (Ida.)	5500	48	12.8	c c		10.7	
Rodeo Flat (Nev.)	6800	42	11.0		8.0g	7.6	8.3 h
Taylor Canyon (Nev.)	6200	48	15.1		13.5 <sup>g</sup>	13.1	14.4 h
RIIRNT	POWDER, PINE, GRA	NDE ROND	TMNAHA	WATERSHED	S		
Blue Mountain Summit	5100	36	16.8	4/30	12.8	16.8	14.6
Dooley Mountain	5430	36	9.2	4/26	6.7	6.6	6.8
Emigrant Springs	3925	48	22.3	4/24	21.0	21.5	20.9
Ladd Summit	3730	48	18.9	4/27	9.8	14.0	11.8
Moss Springs	5850	36	25.8	4/29	16.3	16.3	
Tollgate Tollgate	5070	48	23.6	4/26	18.3	16.7	17.9
ΙΙΜΔΤΤΙΙΙ	, WALLA WALLA, WIL	I.OW POC	K. LOWER I	OHN DAV W	ATERSHEDS		
Battle Mountain Summit	4340	48	13.8	4/24	13.6	13.7	13.4
Emigrant Springs	3925	48	22.3	4/24	21.0	21.5	20.9
Collgate	5070	48	23.6	4/26	18.3	16.7	17.9
			WATERSHEDS				
Battle Mountain Summit	4340		13.8	4/24	13.6	13.7	13.4
Beech Creek	4800	48	21.3	4/27	16.8	19.4	16.3
Blue Mountain Spring	5900	42 36	16.9	4/30 4/30	13.5	12.3 16.8	13.2 14.6
Blue Mountain Summit Derr	5100 5670	24	16.8 9.0	4/30 c	12.0	8.2	
Derr Marks Creek	4540	36	14.1	4/26	11.8	13.3	13.1
Snow Mountain	6300	48	16.7	c 4, 20	11.0	$16.2^{f}$	
Starr Ridge	5150	36	10.6	4/27	9.8	10.6	10.4
Williams Ranch	4500	42	17.9	4/27	16.9	16.6	16.8
	UPPER DESCHUTES	CBUUKEI	WATEDQUE	ns.			
Derr	5670	, CROOKEI	9.0			8.2	
Marks Creek	4540	36	14.1	4/26	11.8	13.3	13.1
Snow Mountain	6300	48	16.7	c		16.2 f	
Н	OOD, MILE CREEKS,	LOWER DES	CHUTES WAT	ERSHEDS			
Cooper Spur	3490	72	26.4	4/30	14.2	14.2	
•					-		
	KLAMAT	H <sub>.</sub> WATERSI	HEDS				
Quartz Mountain	5230	48	15.3	4/26	9.4	10.2	9.4

### **BASIC DATA SUPPLEMENT 2**

MAY 1, 1973

### COIL MOICTHDE

DRAINAGE BASIN and/or STA		FIGURE	e (Inches)	Date of		l Moisture (Ind	hes)
Name	Elevation	Depth	Capacity	Survey	This Year	Last Year	Average
	LAKE-COUNTY, G	OOSE LAKE	WATERSHED	S			
amas Creek	5720	42	14.5	4/30	13.2	13.2	13.1
uartz Mountain	5230	48	15.3	4/26	9.4	10.2	9.4
		ASIN WATE	1				
lue Mountain Spring ish Creek	5900 7900	42 48	16.9 15.0	4/30 c	13.5	12.3 10.1 <sup>f</sup>	13.2
ilvies	6900	48	16.4	c			
now Mountain tarr Ridge	6300 5150	48 36	16.7 10.6	c 4/27	9.8	16.2 <sup>f</sup> 10.6	10.4
illow-Bald	5000	24	6.6	4/27	4.6	6.6	
i i							
•							
•							
			`				
			•				
		•					

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report — data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

### **BASIC DATA SUPPLEMENT 3**

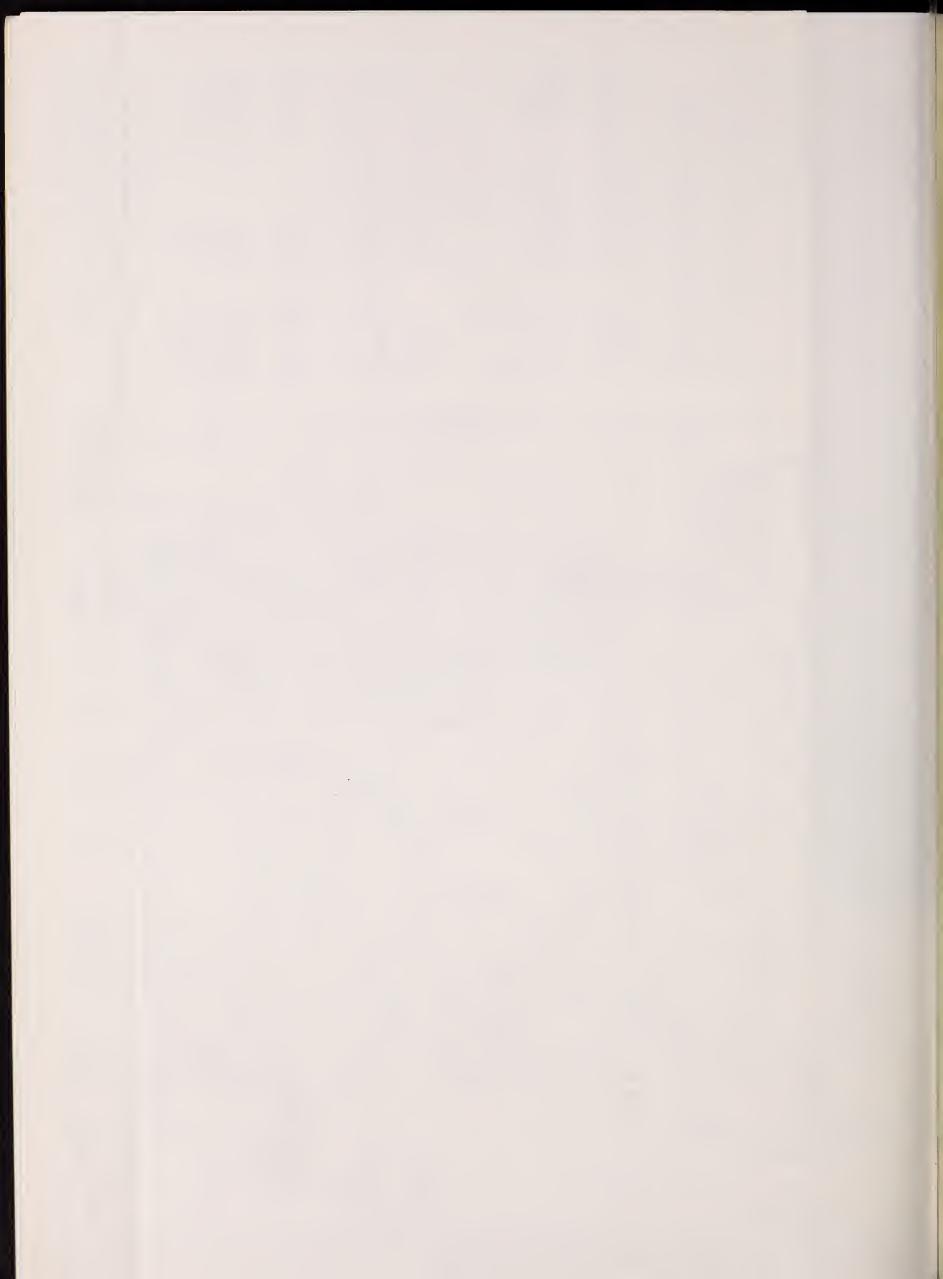
MAY 1, 1973

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION		-	FORMATION	PAST R	
	ELEVATION	Date of Reading	Precip- itation	Last Year	Average
neroid Lake #2 (Wallowa County)	7400	3/27 to	1.50	7.00	•
rbuckle Mountain (Morrow County)	5400	4/28/73 3/30 to	1.50	3.00	
ucky Strike (Umatilla County)	5050	4/26/73 3/29 to	1.93	2.75	
uartz Mtn. Summit (Lake County)	6300	4/30/73 3/28 to	4.10	3.90	
ilver Creek (Lake County)	4900	4/26/73 3/30 to	1.54	2.44	
trawberry (Lake County)	5760	4/28/73 3/28 to	0.18		
aylor Butte (Klamath County)	5040	4/25/73 3/29 to	1.95	1.50	
aylor Green (Union County)	5800	4/26/73 4/2 to	1.80		
		4/29/73	2.00	0.90	
			"		
			"		

<sup>(</sup>a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



×.	NOTES LOCATION ELEV MANUE  SEC 1+9 4GE	ER NAME LOCATION ELEV	NUMBER NAME	LOCATION ELEV	NUMBER	NAME	SEC TOP GGE	NUMBER	NAME			
	OWYHEE, MALHEUR WATERSHEDS (1) 16H3 16G7/		18E2O Eldorado Pass 18E26a Flag Prairie	20 145 38E 4600 32 165 36E 4750 10 165 33',E 5200	18E23 18E30	Little Alps Little Antone	10 7S 37E 6200 1 7S 37E 5000		Willow Creek	NUMBER	NAME LOCATION ELEV SEC 100 RG1	MIMBER NAME LOCATION ELEV
	Owyhee River 1765: 1746:	a Oregon Canyon 8 40S 40E 6950 a Quinn Ridge (Nev) 9 47N 41E 6300	18E18 Lake Creek 18E22a Logan Valley	10 16S 33'-E 5200 13 16S 33'-E 5100 23 185 32E 5100 2 16S 37E 5500 2 16S 37E 4800	18E28 1 <b>7</b> 07P	Power Plant Taylor Green	33 /S 38E 3990 3 6S 42E 5740	1902P 18E1P	Arbuckle Mountain 33 4S 29E 5400 Anthony Lake 19 7S 37F 7105	21E6 21E4 22E3	Hogg Pass 24 135 75E 4755 Marion Forks 29 115 7E 2600 Mill City 29 95 3F 926	2166a Dog Hollow 1 40S 14E 4900 20614a Finley Corrals 11 36S 16E 6000
169 166 156		MP Rodeo Flat (Nev) 36 43N 53E 6800	18F1 Rock Spring 18E32p* S. Fk. Willow Cr. 18F4P Stinking Water	23 185 32E 5500 2 16S 37E 5500 34 21S 34E 4800	1708	Pine Creek Schneider Meadows	35 6S 45E 5400		UPPER JOHN DAY WATERSHEDS (4)	21 E 5 21 E 3	Mill City 29 9S 3E 826 Santiam Junction 14 13S 7E 3750 Whitewater Bridge 20 10S 7E 2175	22G12 Fourmile Lake 9 365 5E 6000 21G4P Gerber 12 395 13E 4850
155 1767	MP Big Bend (Nev) 30 45H 56E 6700 16F3/ m Blue Mtn Pass 31 37S 42E 5290 18G1N	AP* Silver City (Ida) 6 55 3W 6400 MPA Silvies 35 32S 33E 6900	Triming mater			Gronde Ronde Ri			Upper John Doy River		McKenzie River	22G16 Hyatt Prairie Reservoir 15 39S 3E 4900 22G15 Lake of the Woods 11 375 5F 4960
1750 1781 1681	and the same of th	9a Stag Mountain (Nev) 32 41N 58E 7800	BURNT, POWDER, PINE, GI RONDE, IMNAHA WATERS	ANDE HEDS (2)	1701 1702P	Aneroid Lake No. 1 Aneroid Lake No. 2	16 4S 45E 7480	1902P 18012MP	Arbuckle Hountain 33 45 29E 5400	21E8 22E4	Oead Horse Grade 13 165 7E 3700 Lost Creek Ranch 19 165 7E 1956	22G5   Park Headquarters
16H6 18H1	a Columbia Basin (Nev) 31 44N 53E 6650 15H9M Oisaster Peak (Nev) 8 47N 34E 6500 16H7a	MP Taylor Canyon (Nev) 35 39N 53E 6200 a Toe Jam (Nev) 29 40N 50E 7700	Surnt River		18E1P 17010a 1809	Anthony Lake Bald Mountain 14 Beaver Reservoir	8 7S 37E 7125 & 15 4S 41E 6700	19E2M 18E16MP 18E13M	Blue Mountain Spring 32 & 33 115 30E 4650	21 E7 22 E 5 22 E 6	McKenzie Bridge 35 155 74E 4800	22G33 Seven Mile 20 33S 6E 5725 20Hla State Line (Cal) 21 48N 11F 5750
1688 1892 1863	MPA Fish Creek 4 33S 33E 7900 16G4M	MA Triangle (Ida) 25 7S 3W 5150	18E13M Blue Mountain Summit 17E1MP Dooley Mountain	6 12S 36E 5098 32 115 40E 5430	1808P 1806P	County Line Lucky Strike	8 5S 37E 5150 28 4S 34E 4800 28 3S 32E 5050	19E3MP 18E27a	Derr East Fork Capyon 14 13S 23E 5670	21E9	White Branch Slide 15 16S 7E 2700	20G2AP Strawberry 4 405 16E 5760 20G2AP Summer Rim 23 335 16E 7100
15H2 15H7	Fox Creek (Nev 33 46N 58E 6800 18G7a Fry Canyon (Nev) 31 43N 54E 6700 16G12	a 'V' Lake 31 35%S 32½E 6600 2a Vaught Ranch (Ida) 10 11S 1W 5950	18E20 Eldorado Pass 18E8 Gold Center	32 115 40E 5430 20 14S 38E 4600 21 95 36E 5340 34 105 35E 5100	1805 18020 17013a	Meacham Meacham Snow Pillow Mirror Lake	24 1S 35E 4300 35 1S 35E 4150	18E8 18E24a 19E9P	Indian Cr. Butte 21 98 36E 5340	22F3	Middle Fork Willomette River Cascade Summit 7 23S 6E 4880	20613a Sycan Flat 25 315 14E 5500 2163P Taylor Butte 21 33S 11E 5100
15H5 17H4 1565	Gold Creek (Nev) 31 45N 56E 6600 16G13 Granite Peak (Nev) 22 44N 39E 7800 Hyde Pasture (Ida) 31 8S 2W 5800	3a War Eagle (Ida) 20 5S 3W 7700	18E9P Tipton Powder River		1706M 1807	Moss Spring Schoolmarm	34 4S 44E 8200 28 3S 41E 5850 28 4S 34E 4775	1806P 20E1MP	Lucky Strike 28 16S 29E 5293 Marks Crook 28 3S 32E 5050	22F8 22F6 22F7	Lookout Point Oam 13 195 1W 750 McCredie Springs 36 21S 4E 2120	Pocific Power and Light Company's Snow Station
16H1 16H2	Jack Creek, Lower (Nev) 18 42N 53E 6800 Jack Creek, Upper (Nev) 9 42N 53E 7250	Matheur River	18E1P Anthony Lake	1p 7s 37F 7125	17011a 1707P 1803M	Standley Taylor Green Tollgate	21 2S 42E 7400 3 6S 42E 5740	20E2 18E7 a 18D7	Ochoco Meadows 25 125 19E 4540 Olive Lake 21 135 20E 5200 Schoolmarm 14 95 34E 6000	22F5 22F4	Oakridge         16 21S 3E 1310           Railroad Overpass         21 22S 5E 2750           Salt Creek Falls         32 225 5 E 4000	3 Chiloquin (PP&L) 34 34S 7E 4187 4 Crystal (PP&L) 26 34S 6E 4200 5 Fort Klamath (PP&L) 22 33S 7'E 4150
1763 1665	Jack Peak (Nev) 28 42N 53E 8420 18E16 Dordan Valley 2 30S 46E 4390 18F6a Laurel Oraw (Nev) 20 45N 53E 6700 18E21	Buck Pasture 28 29S 35E 5300 Bully Creek 11 17S 37E 5300	18E5 Bourne 17E1MP Oooley Mountain 18E3 Eilertson Meadows	33 85 37E 5800 32 11S 40E 5430 18 8S 38E 5400		TV Ridge No. 2	32 4N 38E 5070 12 2S 43E 7000	19F1M* 19E7M 18E9P	Snow Mountain 28 45 34E 4775 Starr Ridge 20 155 6220	22F2P 22F14*	Waldo Lake 15 24S 6E 5600 Willamette Pass 33 24S 5%E 5600	8 Harriman Lodge (PP&L) 3 365 6E 4200 6 Kirk (PP&L) 1 335 7E 4533
1766 1764 1783	Lookout 8utte 2 40S 47E 5650 18F7a Louse Canyon 27 40S 44E 6440 17F2a	1 Call Meadows 29 20S 33E 5340 Cottonwood-Indian 3 19S 39E 4320	18E8 Gold Center 18E6A Goodrich Lake	21 95 36E 5340 4 95 38E 6775	1701	Aneroid Lake No. 1	16 45 455 7400	18E25MP	Williams Ranch 34 105 35% 5100 20 155 32E 4500	2055	Coost Fork Willomette River	
* 15H2	10 111 102 4.00	M Crane Prairie 24 165 34E 53/5	18E29 Intake House 17012m Ladd Summit	5 85 38E 4930 5 5S 39E 3730		Aneroid Lake No. 2 8ig Sheep	16 4S 45E 7300 33 4S 46E 6200		UPPER DESCHUTES, CROOKED WATERSHEDS (5)	22F9 22F10 22F13	Champion   12 23S   1E 4500 Golden Curry Creek   1 23S   1E 3136 Layng Creek R.S.   31 21S   1E 1200	LAKS COUNTY DOOR OF
					UN	MATILLA, WALLA WALLA, WI LOWER JOHN DAY WATER	ILLOW, ROCK,	21F8	Upper Deschutes River Caldwell Ranch 20 215 95 4400	22F12 22F11	Layng Creek R.S. 31 21S 1E 1200 Lund Park 22 22S 1E 1740 Weaver Creek 35 22S 1E 2440	LAKE COUNTY, GOOSE LAKE WATERSHEDS 1111
K	24 23 22	21 20 19	18 17	16		Umotillo River		22F3 21F11 21E6	Cascade Summit 7 235 6E 4880 Chemult 21 275 86 4760		Mory's River	20G15a Bear Flat Meadow 27 36S 19E 5900 20G8MP Camas Creek 5 39S 21E 5720
C	** Clower W				1902P 18012MP	Arbuckle Mountain Battle Mountain Summit	33 4S 29E 5400 29 3S 31E 4340	21F4 21F6*	Hungry Flat 29 18S 11E 4400	23E1	Mary's Peak 21 12S 7W 3620	20G1A Cox Flat 16 375 18E 5750 20H2a Crowder Flat (cal) 30 47N 11E 5200 20H3a Dismal Swamp (Cal) 31 48N 16E 7200
	O TOUR	S H I N G T	O N	1	1804M 18D19 1806P	Emigrant Springs High Ridge Pillow Lucky Strike	29 1N 35E 3925 31 3N 38E 4980 28 3S 32E 5050	21F10 21E16 21F3	New Crescent Lake 11 24S 6E 4800 New Outchman Flat #2 21 18S 9F 6400	23E2	Luckiomute River	20G17a Patton Meadow 28 38S 18E 6800 20G6MP Quartz Mountain 2 385 16E 5320
		Control	date forege		1805 18020	Meacham Meacham Snow Pillow	24 1S 35E 4300 35 1S 35E 4150	21E15 21E13*	Tangent 28 18S 10E 5400 Three Creeks Butte 27 16S 9E 5200 Three Creeks Meadows 34 16S 9E 5650	23E3	Valsetz Summit 6 85 7W 3000  Valsetz Summit 3 9S 7W 2600  Tuolotin River	20H1a   State Line   (Cal) 21   48N   11E   5750     20G9AP   Strawberry   4   40S   16E   5760     20G16a   Willow Creek   13   40S   21E   6020
		Umgrillo, Walle Walle.	Burnt, Powder, P	ine	1803M	Tollgate Wallo Wollo Rive	32 4N 38E 5070	22F2P 22F14*	Waldo Lake 15 21% 6E 5600 Willamette Pass 33 24% 5'% 5600	2302*	Seine Creek 34 1N 5W 2000	Abert Loke
D	Semant Se	Willow Rock	Grande Ronde, Im	ngha = /	18016 1803M	8lue Mountain Camp Tollgate	35 4N 37E 4300	19E3MP	Oerr NA 225 225 5672	2301*	Saddle Mountain 25 1N 6W 3250	20G15a
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	Carlo	àloze Hapd	207.0	17014		LEGEN0		19F1M 19E4	Snow Mountain I 198 26E 6220 Tamarack B 158 25E 4800	23G4P	Rogue River Althouse 17 41S 7W 4530	2004   Mill Creek
	Page 210 210	Lower Deschutes	18E 18E 23 1707 1708		190214	SNOW COURSE ONLY SNOW COURSE AND SOIL MOISTURE SNOW COURSE, SOIL MOISTURE AN	E IN AFRIAL MARKED	11000		22G6 22G28 22G21P	Annie Spring 19 31S 6E 6018 Beaver Oam Creek 1 38S 4E 5100 Big Red Mountain 31 40S 1W 6250	Summer Loke
	2323 (200 mm) (200 mm) 2251 mm		18E7   18E3   18E6   18	\\ \frac{1}{2}	1902A 1902m	SNOW COURSE AND AERIAL MARKE SOIL MOISTURE ONLY AERIAL MARKER ONLY	ER .	ноов,	MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6) Hood River	22G13P 22G30 22G27	8illie Creek Oivide     30 365 5E 5300       Caliban     16 405 1E 6500       Oeadwood Junction     8 385 4E 4600	20G2AP Summer Rim 23 335 16£ 7100
E	William ette . Sies	Upper John Day	DE2 // TEI		19D2P 19D2p	SNOW COURSE AND PRECIPITATION PRECIPITATION GAGE ONLY RADIO TELEMETRY	N GAGE	2106P 21025M	Brooks Meadows 2 25 10F 4300	22F19 22G14P	Diamond-Crater Summit	Silver Loke   21F2P   Silver Creek   25 & 26   29S   13E   4900
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		19649	18E27 18E20 18E20 18E20	$\sim$				21023 2108* 2104	Parkdale 5 15 10E 1770 Phlox Point 7 3S 9E 5400	22G16 22G22 22G31	Hyatt Prairie Reservoir 15 395 3E 4900 Little Red Mountain 25 405 2W 6500 Mt. Ashland Switchback 15 405 1E 6400	20GBMP
	Parent's Justice Services	21E13 21E16 -	158-22. 18E19 11626 - 18E21	~ ·				2109 21028	Still Creek 25 35 85E 3670 Switchback 28 15 9E 3255	23G14 23G5	Mule Creek 8 32S 9W 3680 Page Mountain 5 41S 7W 4045	19Gla Hart Mountain 1 36S 25E 6350 20Gl0a Sherman Valley 15 37S 21E 6600
	A VARIA	Upper Deschules Crooked	017f2	· j				2107P 21021 21030	Tilly Jane 15 2S 9E 6000 Ulrich Ranch Junction 28 1S 11E 3350 Umbrella Falls 3 3S 9E 5400	22G5 22G11 22G2	Park Headquarters       8 31S 6E 6550         Seven Lakes No. 2       26 33S 5E 6200         Silver Burn       30 30S 4E 3720	20G16a Willow Creek 13 40S 21E 6020  Guono Loke
	22F)3, 22F10 22F18, 22F6 22F6 22F18, 22F10, 22F6	91953	18F3	<u> </u>				21024	Upper Valley 20 15 10E 2530  Mile Creeks - Mosier Creek	22G20 22G32 22G9	Siskiyou Summit         17 40S 2E 4630           Ski Bowl Road         22 40S 1E 6000	19H1 Bald Mountain (Nev) 17 45H 21E 6720 19Gla Hart Mountain 1 36S 25E 6350
F	22FIO							2106P	Rmoks Meadows 2 2S 10E 4300	22G1	Whaleback 4 31S 2E 5025	19H4a Little Bally Mt. (Nev) 8 45N 19E 6600  HARNEY BASIN WATERSHED (122)
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	Rogue, Umpquo 2201 0232 2200	ZIFIZ	858 18F63	(6530) (66330)				21012 21022 21E6	Clear Lake	23G9 23G10 23G11	King Mountain No. 2 4 33S 4W 4000 King Mountain No. 3 33 32S 4W 3648 King Mountain No. 4 33 32S 4W 3049	18F3P         Idlewild Camp         27         20S         31E         5200           19E9P         Izee Summit         28         16S         29E         5293
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G		2064	y Bosin Owynee, Maineu	1865					Sondy River	22F23 22F24	Red Butte No. 1 36 27S 2W 4560 Red Butte No. 2 30 27S 1W 4300	18F4P Stinking Water 34 215 34E 4800 19F4m Willow-Bald 19 22S 29E 5000
	Come house   Come	20013 20018 lead	18670	16G11 15G12e 0				2108* 2109	Phlox Point 7 3S 9E 5400 Still Creek 25 3S 81/E 3670	22F25 22F26 22F27	Red Butte No. 3 30 27S 1W 3500 Red Butte No. 4 30 27S 1W 3000 Red Butte No. 5 20 27S 1W 2500.	Donner Und Blitzen River
	25/21	20017 2003		1766					WILLAMETTE WATERSHEDS (8)	22F28 22F17 22G1	Red Butte No. 6 17 27S 1W 2000 Trap Creek 1 27S 4E 3800	-18F6a Buck Pasture 28 29S 35E 5300 18G2MPA Fish Creek 4 33S 33E 7900 19G1a Hart Mountain 1 36S 25E 6350
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		N I A e <sup>20N2</sup> e <sup>19M4</sup> e <sup>19H1</sup> N	E V A D7H1	А	●15H2O  5H1●●15	5H2		21012 21016 21014P*	Clear Lake 29 4S 9E 3500 Lake Harriet 4 6S 7E 2045 Peavine Ridge 14 & 15 6S 7E 3500		Klomoth River	Trout and Whiteharse Creeks
н	SNOW COURSES AND RELATED DATA MEASURING SITES	t(GIND	17H4_017H3	elene elene	15H5	5H3		2108* 2109	Phlox Point 7 38 9E 5400 Still Creek 25 3S 8 E 3670	22G6 22G13P	Annie Spring 19 315 6E 6018 8illie Creek Oivide 30 36S 5E 5300 Chemult 21 27S 8E 4760	18G6a Oenio Creek 14 415 34E 6000 18H1 Oisaster Peak (Nev) 8 47N 34E 6500 1765a Oregon Canyon 8 40S 40E 6950
	OREGON	State Boundary ————————————————————————————————————		I CHIS	ISHI9			21017	Timothy Lake 26 55 8E 3295	21F11 22G24* 20G12a	Cold Springs Camp 12 35S 5E 6100 Crazyman Flat 9 34S 15E 6100	1865a Trout Creek 10 415 38E 7800
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### The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

Idaho Cooperative Snow Surveys Nevada Cooperative Snow Surveys Oregon State University Oregon State Engineer and Corps of State Watermasters Oregon State Highway Engineers Soil and Water Conservation Districts of Oregon

COUNTY

Douglas County Water Resources Survey FEDERAL

> Department of Agriculture Cooperative Extension Service Forest Service Soil Conservation Service Department of Commerce NOAA, National Weather Service

Department of the Interior Bonneville Power Administration Bureau of Land Management Bureau of Reclamation Fish and Wildlife Service Geological Survey National Park Service

Department of National Defense Corps of Army Engineers

PUBLIC UTILITIES

Pacific Power and Light Company Portland General Electric Company California-Pacific Utilities Company

MUNICIPALITIES

City of Baker City of La Grande City of The Dalles City of Walla Walla IRRIGATION DISTRICTS

> Arnold Irrigation District Associated Ditch Companies Burnt River Irrigation District Central Oregon Irrigation District East Fork Irrigation District Grants Pass Irrigation District Hood River Irrigation District Jordan Valley Irrigation District

Juniper Flat Irrigation District Lakeview Water Users, Incorporated Medford Irrigation District

Middle Fork Irrigation District North Board of Control - Owyhee Project

North Unit Irrigation District Ochoco Irrigation District Rogue River Valley Irrigation District

South Board of Control - Owyhee Project Squaw Creek Irrigation District

Talent Irrigation District

Tumalo Project

Vale-Oregon Irrigation District Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon

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